

GTX300018

DSB Relative Repair Antibody Panel

Product Content

Cat No	Product Name	Reactivity	Application	Package
GTX101820	Ku70 antibody	Human, Mouse	WB, ICC/IF, IHC-P, IP, PLA	25 µl
GTX213111-01	Goat Anti-Mouse IgG antibody (HRP)	Mouse	WB, IHC-P, ELISA, IHC	25 µl
GTX628789	Histone H2A.XS139ph (phospho Ser139) antibody [GT2311]	Human, Mouse, Rat	WB, ICC/IF, IHC-P, IP	25 µl
GTX70212	Mre11 antibody [12D7]	Human	WB, ICC/IF, IHC-P, IP, ELISA, Functional Assay, PLA	25 µl
GTX70222	NBS1 antibody [1C3]	Human, Mouse	WB, ICC/IF, IP	25 µl
GTX70228	Rad50 antibody [13B3]	Human, Mouse, Rat, Monkey	WB, ICC/IF, IHC-P, IP, ChIP assay, IHC, in vitro, PLA	25 µl
GTX70276	Ku80 antibody [149.8]	Human, Monkey	WB, ICC/IF	25 µl

Note

For In vitro laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



For full product information, images and publications, please visit our [website](#).

Ku70 antibody

Cat. No. GTX101820

Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application	WB, ICC/IF, IHC-P, IP, PLA
Reactivity	Human, Mouse

Reference (18)
Package
100 µl, 25 µl

APPLICATION

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:500-1:3000
ICC/IF	1:100-1:1000
IHC-P	1:100-1:1000
IP	1:500-1:1000
PLA	Assay dependent

Not tested in other applications.

Calculated MW 70 kDa. ([Note](#))

PROPERTIES

Form	Liquid
Buffer	PBS, 20% Glycerol
Preservative	0.025% ProClin 300
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	0.25 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Recombinant protein encompassing a sequence within the C-terminus region of human Ku70. The exact sequence is proprietary.
Purification	Purified by antigen-affinity chromatography.
Conjugation	Unconjugated

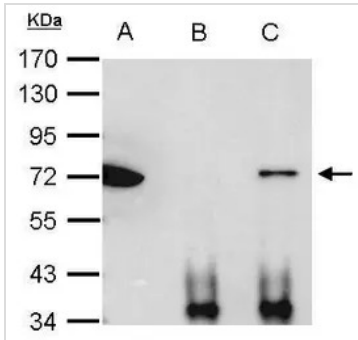


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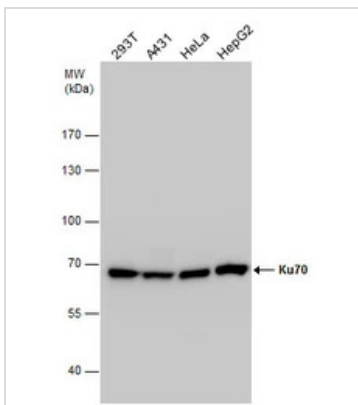
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Note

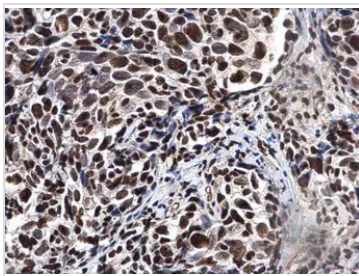
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DATA IMAGES

GTx101820 IP Image

Ku70 antibody immunoprecipitates Ku70 protein in IP experiments. IP Sample: 1000 µg HeLa whole cell lysate/extract A. 40 µg HeLa whole cell lysate/extract B. Control with 2.5 µg of preimmune rabbit IgG C. Immunoprecipitation of Ku70 protein by 2.5 µg of Ku70 antibody (GTx101820) 7.5% SDS-PAGE The immunoprecipitated Ku70 protein was detected by Ku70 antibody (GTx101820) diluted at 1:1000. EasyBlot anti-rabbit IgG (GTx221666-01) was used as a secondary reagent.


GTx101820 WB Image

Ku70 antibody detects Ku70 protein by western blot analysis. Various whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Ku70 antibody (GTx101820) diluted by 1:2000. The HRP-conjugated anti-rabbit IgG antibody (GTx213110-01) was used to detect the primary antibody.

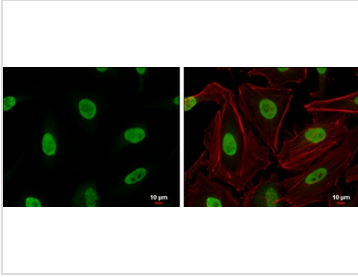

GTx101820 IHC-P Image

Ku70 antibody detects Ku70 protein at nucleus in human cervical cancer by immunohistochemical analysis. Sample: Paraffin-embedded human cervical cancer. Ku70 antibody (GTx101820) diluted at 1:500.

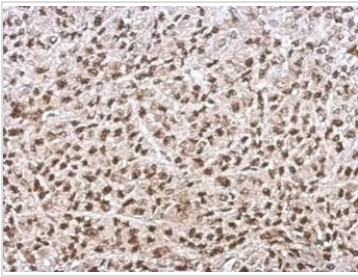
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



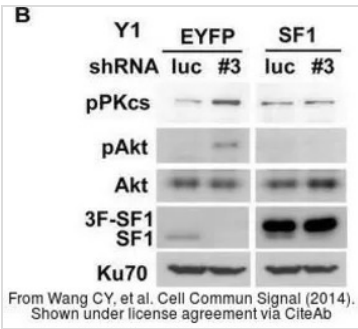
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GTX101820 ICC/IF Image

Ku70 antibody detects Ku70 protein at nucleus by immunofluorescent analysis.
 Samples: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min.
 Green: Ku70 protein stained by Ku70 antibody (GTX101820) diluted at 1:200.
 Red: phalloidin, a cytoskeleton marker, diluted at 1:200.
 Scale bar = 10 µm.


GTX101820 IHC-P Image

Immunohistochemical analysis of paraffin-embedded D54 xenograft, using Ku70(GTX101820) antibody at 1:500 dilution.
 Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min


GTX101820 WB Image

The data was published in the journal Cell Commun Signal in 2014. [PMID: 25421435](https://pubmed.ncbi.nlm.nih.gov/25421435/)



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Goat Anti-Mouse IgG antibody (HRP)

Cat. No. GTX213111-01

Host	Goat
Clonality	Polyclonal
Isotype	IgG
Application	WB, IHC-P, ELISA, IHC
Reactivity	Mouse

Reference (356)

Package

1 ml

APPLICATION

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	Assay dependent
IHC-P	1:100-1:1000
ELISA	Assay dependent
IHC	Assay dependent

Not tested in other applications.

PROPERTIES

Form	Liquid
Buffer	0.05M Tris, 0.15M NaCl, 1%BSA
Preservative	0.025% ProClin 300
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	0.25 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Highly purified whole mouse IgG
Purification	Purified by antigen-affinity chromatography.
Conjugation	Horseradish peroxidase(HRP)

Note

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DATA IMAGES



GTx213111-01 IHC-P Image

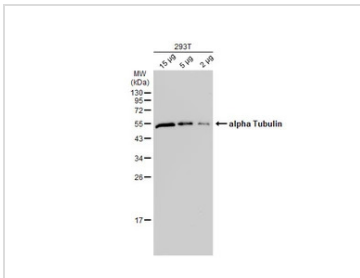
E2F1 antibody [16G7] detects E2F1 protein at nucleus in mouse cervix by immunohistochemical analysis.

Sample: Paraffin-embedded mouse cervix.

E2F1 antibody [16G7] (GTx70163) diluted at 1:500.

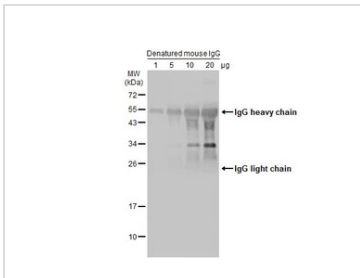
The signal was developed by Mouse IgG antibody (HRP) (GTx213111-01).

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



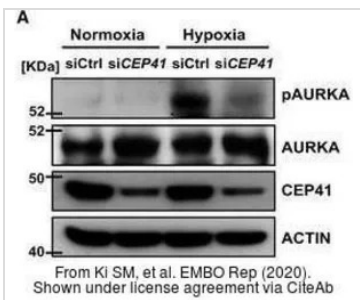
GTx213111-01 WB Image

Various whole cell extracts were separated by 12% SDS-PAGE, and the membrane was blotted with alpha Tubulin antibody [GT114] (GTx628802) diluted at 1:10000. The HRP-conjugated anti-mouse IgG antibody (GTx213111-01) was used to detect the primary antibody.



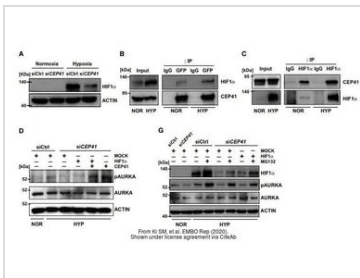
GTx213111-01 WB Image

Various amounts of denatured mouse IgG protein were separated by 12% SDS-PAGE, and the membrane was blotted with HRP-conjugated anti-rabbit IgG antibody (GTx213110-01) diluted at 1:5000.



GTx213111-01 WB Image

The data was published in the journal EMBO Rep in 2020. [PMID: 31885126](https://pubmed.ncbi.nlm.nih.gov/31885126/)

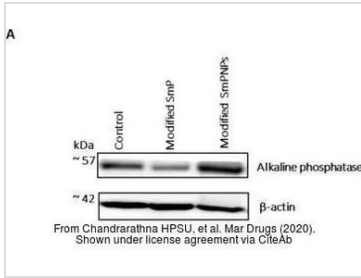


GTx213111-01 WB Image

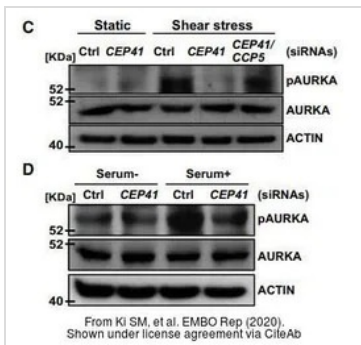
The data was published in the journal EMBO Rep in 2020. [PMID: 31885126](https://pubmed.ncbi.nlm.nih.gov/31885126/)



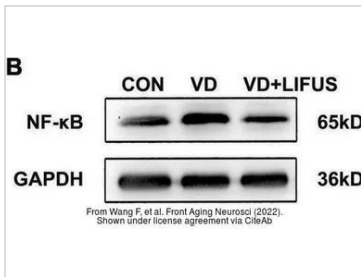
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GTx213111-01 WB Image

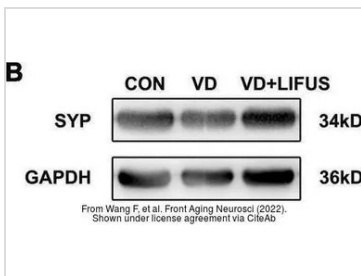
The data was published in the journal Mar Drugs in 2020. [PMID: 32245246](#)


GTx213111-01 WB Image

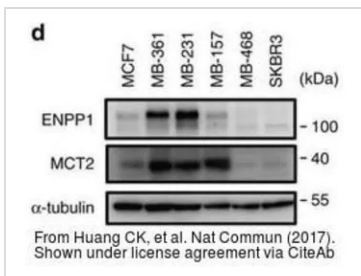
The data was published in the journal EMBO Rep in 2020. [PMID: 31885126](#)


GTx213111-01 WB Image

The data was published in the 2022 in Front Aging Neurosci. [PMID: 35264943](#)


GTx213111-01 WB Image

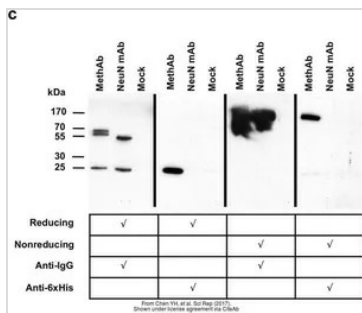
The data was published in the 2022 in Front Aging Neurosci. [PMID: 35264943](#)


GTx213111-01 WB Image

The data was published in the 2017 in Nat Commun. [PMID: 28281525](#)

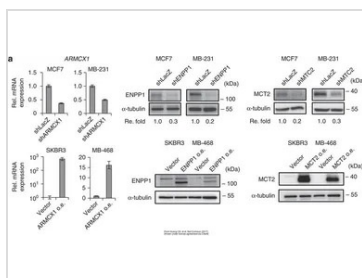


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GTx213111-01 WB Image

The data was published in the 2017 in Sci Rep. [PMID: 28387350](https://pubmed.ncbi.nlm.nih.gov/28387350/)



GTx213111-01 WB Image

The data was published in the 2017 in Nat Commun. [PMID: 28281525](https://pubmed.ncbi.nlm.nih.gov/28281525/)



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Histone H2A.XS139ph (phospho Ser139) antibody [GT2311]

Cat. No. GTX628789

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Application	WB, ICC/IF, IHC-P, IP
Reactivity	Human, Mouse, Rat

Reference (18)
Package
100 µl, 25 µl

APPLICATION

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:500-1:3000
ICC/IF	1:100-1:1000
IHC-P	1:100-1:1000
IP	1:100-1:500

Not tested in other applications.

Calculated MW 15 kDa. ([Note](#))

PROPERTIES

Form	Liquid
Buffer	PBS
Preservative	No preservative
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	0.92 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Carrier-protein conjugated synthetic peptide surrounding phospho Ser139 of human Histone H2A.X. The exact sequence is proprietary.
Purification	Affinity purified by Protein G.
Conjugation	Unconjugated



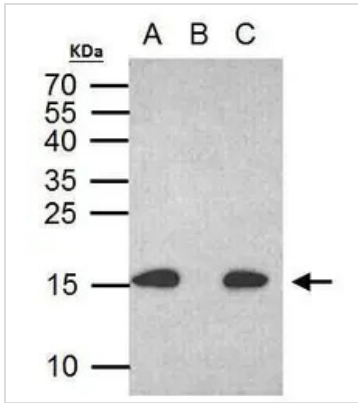
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Note

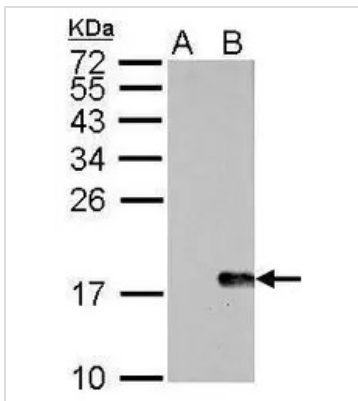
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DATA IMAGES



GTX628789 IP Image

Histone H2A.X (phospho S139) antibody immunoprecipitates histone H2A.X (phospho S139) protein in IP experiments. IP Sample: 500 µg HCT116 with CPT 30 µM treatment 24 hr whole cell lysate/extract A. 30 µg HCT116 whole with CPT 30 uM treatment cell lysate/extract B. Control with 2 µg of preimmune mouse IgG C. Immunoprecipitation of histone H2A.X (phospho S139) protein by 2 µg histone H2A.X (phospho S139) antibody (GTX628789) 15% SDS-PAGE The immunoprecipitated histone H2A.X (phospho S139) protein was detected by Human histone H2A.X (phospho S139) antibody (GTX628789) diluted at 1:1000. EasyBlot anti-mouse IgG (GTX221667-01) was used as a secondary reagent.



GTX628789 WB Image

Histone H2A.X (phospho S139) antibody [GT2311] detects H2AFX protein by western blot analysis.

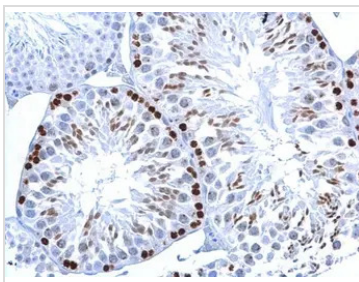
A. 30 µg NIH-3T3 whole cell lysate/extract (untreated)

B. 30 µg NIH-3T3 whole cell lysate/extract (30µM cisplatin treatment for 24hr)

15% SDS-PAGE

Histone H2A.X (phospho S139) antibody [GT2311] (GTX628789) dilution: 1:1000

The HRP-conjugated anti-mouse IgG antibody (GTX213111-01) was used to detect the primary antibody.



GTX628789 IHC-P Image

Histone H2A.XS139ph (phospho Ser139) antibody [GT2311] detects Histone H2A.XS139ph (phospho Ser139) protein at nucleus on mouse testis by immunohistochemical analysis.

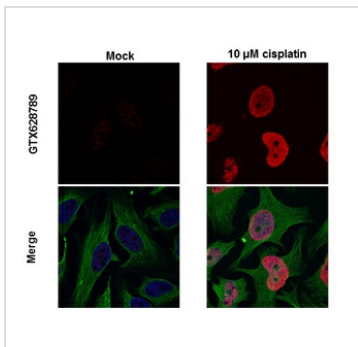
Sample: Paraffin-embedded mouse testis.

Histone H2A.XS139ph (phospho Ser139) antibody [GT2311] (GTX628789) dilution: 1:500.

Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min



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GTx628789 ICC/IF Image

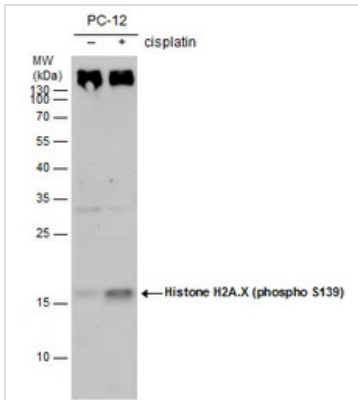
Histone H2A.X (phospho Ser139) antibody detects H2AFX protein at nuclear by confocal immunofluorescent analysis.

Sample: 10μM Cisplatin treated (right) or untreated (left) HeLa cells were fixed in 4% paraformaldehyde for 15 min.

Red: H2A.X protein stained by Histone H2A.X (phospho Ser139) antibody (GTx628789) diluted at 1:500.

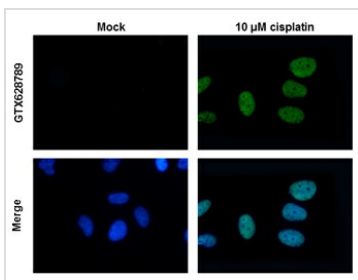
Green: alpha Tubulin antibody (GTx102078) diluted at 1:1000.

Blue: Hoechst 33342 staining. [Images captured by Olympus FV1000 Confocal Laser Scanning Microscope]



GTx628789 WB Image

Histone H2A.X (phospho S139) antibody [GT2311] detects Histone H2A.X (phospho S139) [GT2311] protein by western blot analysis. Un-treated (-) and treated (+, 30 μM Cisplatin treatment for 24 hrs) PC-12 whole cell extracts (30 μg) were separated by 15% SDS-PAGE, and the membrane was blotted with Histone H2A.X (phospho S139) antibody [GT2311] (GTx628789) diluted by 1:500. The HRP-conjugated anti-mouse IgG antibody (GTx213111-01) was used to detect the primary antibody.



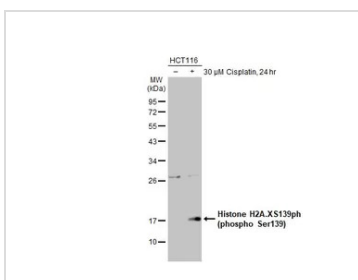
GTx628789 ICC/IF Image

Histone H2A.X antibody detects H2AFX protein at nuclear by immunofluorescent analysis. Sample: 10μM Cisplatin treated (right) or untreated (left) HeLa cells were fixed in 4% paraformaldehyde for 15 min. Green: H2AFX protein stained by Histone H2A.X antibody (GTx628789) diluted at 1:500. Blue: Hoechst 33342 staining.



GTx628789 WB Image

Histone H2A.XS139ph (phospho Ser139) antibody detects Histone H2A.XS139ph (phospho Ser139) protein by western blot analysis. Un-treated (-) and treated (+, 50 J/m² UV treatment) U2OS whole cell extracts (16 μg) were separated by 12%-15% SDS-PAGE, and the membrane was blotted with Histone H2A.XS139ph (phospho Ser139) antibody (GTx628789) diluted at 1:1000. The HRP-conjugated anti-mouse IgG antibody (GTx213111-01) was used to detect the primary antibody.

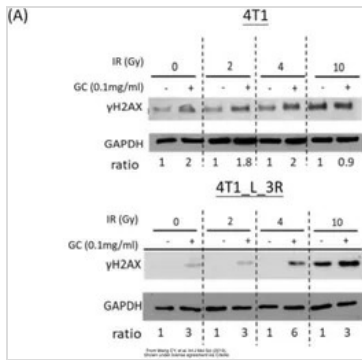


GTx628789 WB Image

Untreated (-) and treated (+) HCT116 whole cell extracts (30 μg) were separated by 12% SDS-PAGE, and the membrane was blotted with Histone H2A.XS139ph (phospho Ser139) antibody [GT2311] (GTx628789) diluted at 1:1000. The HRP-conjugated anti-mouse IgG antibody (GTx213111-01) was used to detect the primary antibody, and the signal was developed with Trident ECL plus-Enhanced.

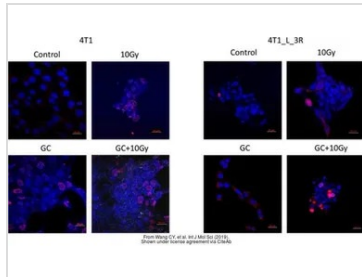


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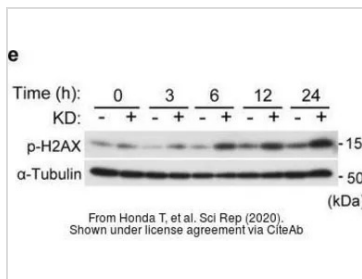
GTx628789 WB Image

The data was published in the 2019 in Int J Mol Sci. [PMID: 31717306](#)



GTx628789 ICC/IF Image

The data was published in the 2019 in Int J Mol Sci. [PMID: 31717306](#)



GTx628789 WB Image

The data was published in the journal Sci Rep in 2020. [PMID: 31980707](#)

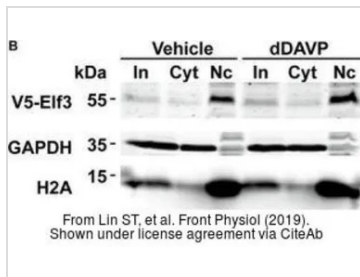


GTx628789 WB Image

The data was published in the journal PLoS Negl Trop Dis in 2017. [PMID: 28783752](#)



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GTx628789 WB Image

The data was published in the journal Front Physiol in 2019. [PMID: 31681015](https://pubmed.ncbi.nlm.nih.gov/31681015/)



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Mre11 antibody [12D7]

Cat. No. GTX70212

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Application	WB, ICC/IF, IHC-P, IP, ELISA, Functional Assay, PLA
Reactivity	Human

Reference (168)

★★★★★ Review (2)

Package

100 µl

PRODUCT

Summary

MRE11 antibody recognizes MRE11 protein, an enzyme with a predicted molecular weight of ~81 kDa. MRE11 forms the core of the MRN (MRE11-RAD50-NBS1) complex, one of the first components of the DNA damage response (DDR) to DNA double-strand breaks where it recruits other signaling factors required for repair. MRE11 has both exonuclease and endonuclease activities, and is responsible for the DNA binding of the complex.

APPLICATION

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:500-1:3000
ICC/IF	1:100-1:1000
IHC-P	Assay dependent
IP	Assay dependent
ELISA	Assay dependent
Functional Assay	Assay dependent
PLA	Assay dependent

Not tested in other applications.

Calculated MW 81 kDa. ([Note](#))

Product Note We do not recommend use of this product for Mouse,Rat samples.

PROPERTIES

Form	Liquid
Buffer	PBS
Preservative	No Preservative
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.



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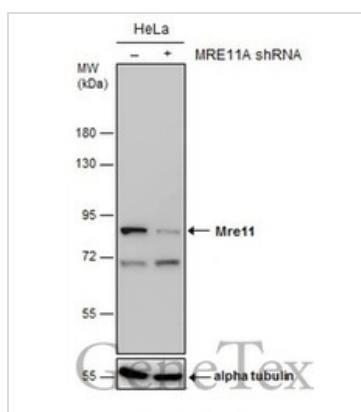
Concentration	0.45 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Amino acids 182-582 of Mre11 expressed in E. coli.
Purification	Protein G purified
Conjugation	Unconjugated

Note

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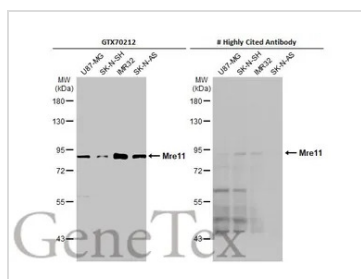
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DATA IMAGES



GTx70212 WB Image

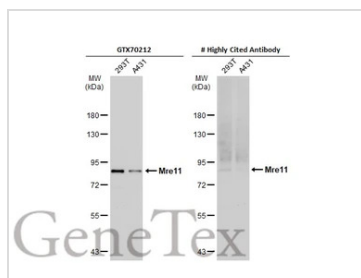
Non-transfected (–) and transfected (+) HeLa whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Mre11 antibody [12D7] (GTx70212) diluted at 1:500. The HRP-conjugated anti-mouse IgG antibody (GTx213111-01) was used to detect the primary antibody.



GTx70212 WB Image

Various whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membranes were blotted with Mre11 antibody [12D7] (GTx70212) diluted at 1:1000 and competitor's antibody diluted at 1:500. The HRP-conjugated anti-mouse IgG antibody (GTx213111-01) was used to detect the primary antibody.

*The competitor is not affiliated with GeneTex and does not endorse this product.



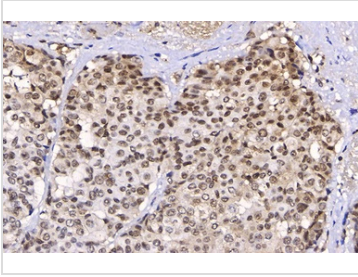
GTx70212 WB Image

Various whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membranes were blotted with Mre11 antibody [12D7] (GTx70212) diluted at 1:1000 and competitor's antibody diluted at 1:1000. The HRP-conjugated anti-mouse IgG antibody (GTx213111-01) was used to detect the primary antibody.

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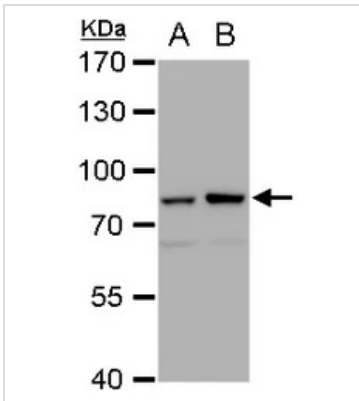
GTX70212 IHC-P Image

Mre11 antibody [12D7] detects Mre11 protein at nucleus by immunohistochemical analysis (Autostainer Formulated).

Sample: Paraffin-embedded human colon cancer.

Mre11 stained by Mre11 antibody [12D7] (GTX70212) diluted at 1:300.

Antigen Retrieval: EDTA buffer, 20 min



GTX70212 WB Image

Mre11 antibody [12D7] detects Mre11 protein by western blot analysis.

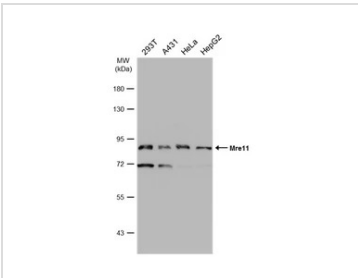
A. 30 µg 293T whole cell extract

B. 30 µg whole cell extract of human Mre11-transfected 293T cells

7.5% SDS-PAGE

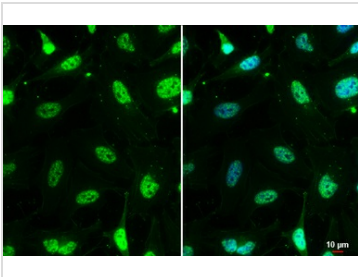
Mre11 antibody [12D7] (GTX70212) dilution: 1:1000

The HRP-conjugated anti-mouse IgG antibody (GTX213111-01) was used to detect the primary antibody.



GTX70212 WB Image

Various whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Mre11 antibody [12D7] (GTX70212) diluted at 1:500. The HRP-conjugated anti-mouse IgG antibody (GTX213111-01) was used to detect the primary antibody.



GTX70212 ICC/IF Image

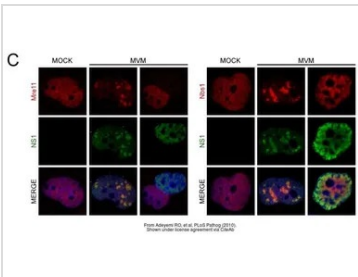
Mre11 antibody [12D7] detects Mre11 protein at nucleus by immunofluorescent analysis.

Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min.

Green: Mre11 stained by Mre11 antibody [12D7] (GTX70212) diluted at 1:200.

Blue: Hoechst 33342 staining.

Scale bar= 10 µm.

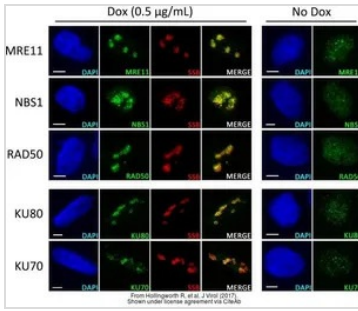


GTX70212 ICC/IF Image

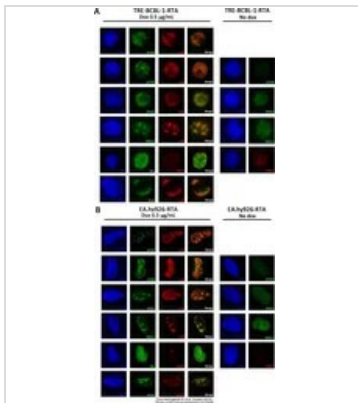
The data was published in the journal PLoS Pathog in 2010. [PMID: 20949077](https://pubmed.ncbi.nlm.nih.gov/20949077/)



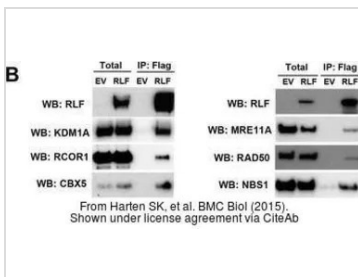
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GTx70212 ICC/IF Image

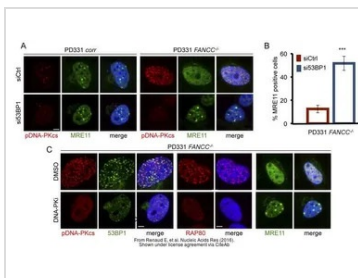
The data was published in the journal J Virol in 2017. [PMID: 28855246](https://pubmed.ncbi.nlm.nih.gov/28855246/)


GTx70212 ICC/IF Image

The data was published in the journal Viruses in 2015. [PMID: 26057167](https://pubmed.ncbi.nlm.nih.gov/26057167/)


GTx70212 WB Image

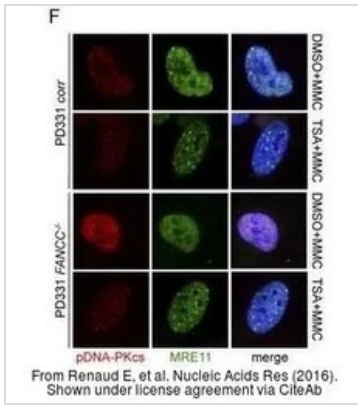
The data was published in the journal BMC Biol in 2015. [PMID: 25857663](https://pubmed.ncbi.nlm.nih.gov/25857663/)


GTx70212 ICC/IF Image

The data was published in the journal Nucleic Acids Res in 2016. [PMID: 26446986](https://pubmed.ncbi.nlm.nih.gov/26446986/)

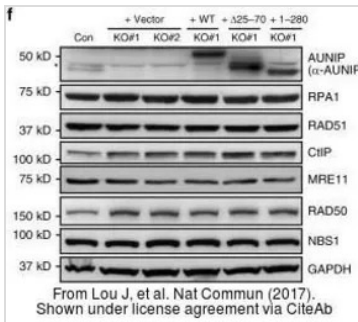


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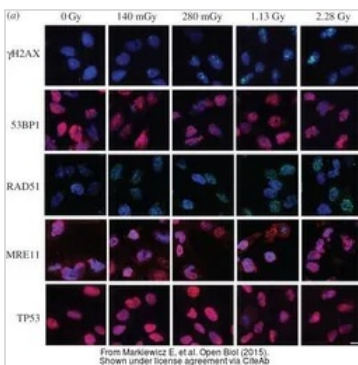
GTx70212 ICC/IF Image

The data was published in the journal Nucleic Acids Res in 2016. [PMID: 26446986](#)



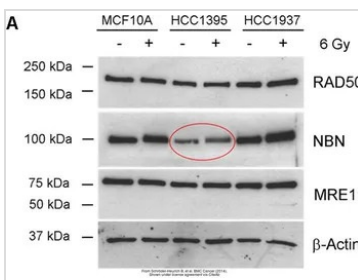
GTx70212 WB Image

The data was published in the journal Nat Commun in 2017. [PMID: 29042561](#)



GTx70212 ICC/IF Image

The data was published in the journal Open Biol in 2015. [PMID: 25924630](#)

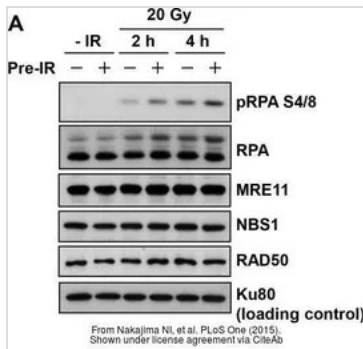


GTx70212 WB Image

The data was published in the journal BMC Cancer in 2014. [PMID: 24928521](#)

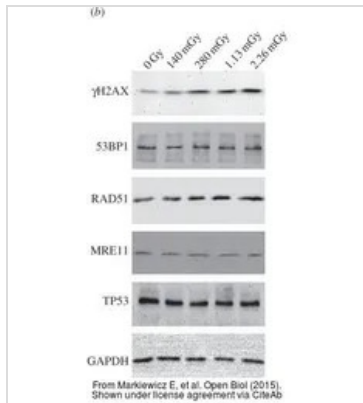


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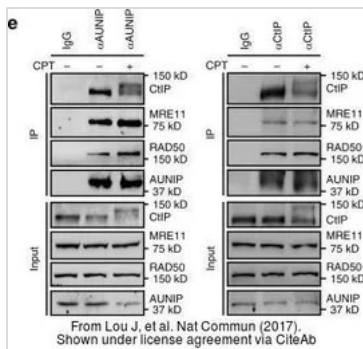
GTx70212 WB Image

The data was published in the journal PLoS One in 2015.[PMID: 25826455](https://pubmed.ncbi.nlm.nih.gov/25826455/)



GTx70212 WB Image

The data was published in the journal Open Biol in 2015.[PMID: 25924630](https://pubmed.ncbi.nlm.nih.gov/25924630/)



GTx70212 WB Image

The data was published in the journal Nat Commun in 2017.[PMID: 29042561](https://pubmed.ncbi.nlm.nih.gov/29042561/)



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NBS1 antibody [1C3]

Cat. No. GTX70222

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Application	WB, ICC/IF, IP
Reactivity	Human, Mouse

Reference (15)
Package
100 µl

APPLICATION

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:500-1:3000
ICC/IF	1:100
IP	Assay dependent

Not tested in other applications.

Calculated MW 85 kDa. ([Note](#))

PROPERTIES

Form	Liquid
Buffer	PBS, 20% Glycerol
Preservative	No Preservative
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	The complete coding region of the human p95/NBS1 expressed in E. coli.
Purification	Protein G purified
Conjugation	Unconjugated

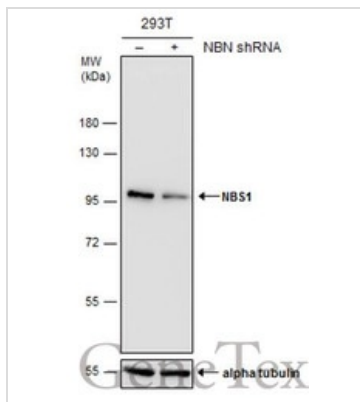
Note

For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

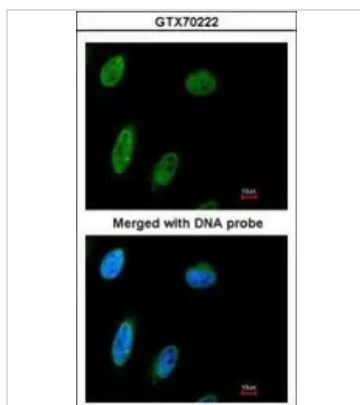
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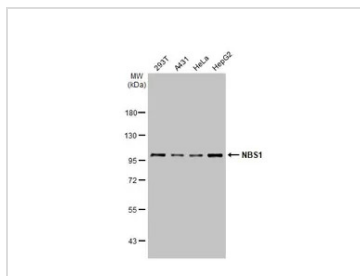
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DATA IMAGES

GTKX70222 WB Image

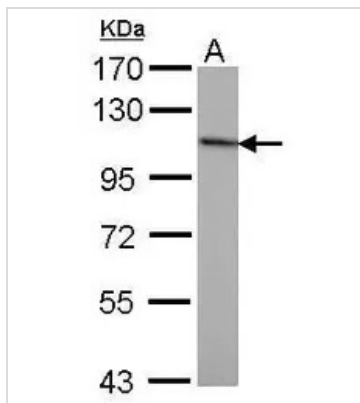
Non-transfected (–) and transfected (+) 293T whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with NBS1 antibody [1C3] (GTKX70222) diluted at 1:500.


GTKX70222 ICC/IF Image

Immunofluorescence analysis of HeLa, using NBS1(GTKX70222) antibody at 1:100 dilution.


GTKX70222 WB Image

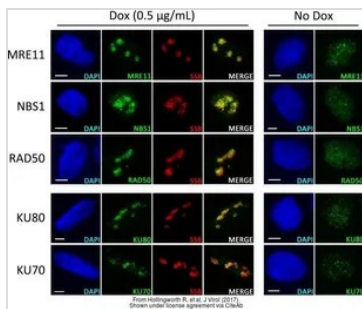
Various whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with NBS1 antibody [1C3] (GTKX70222) diluted at 1:500. The HRP-conjugated anti-mouse IgG antibody (GTKX213111-01) was used to detect the primary antibody.


GTKX70222 WB Image

Sample (50 ug of whole cell lysate)
A: mouse brain
7.5% SDS PAGE
GTKX70222 diluted at 1:1000

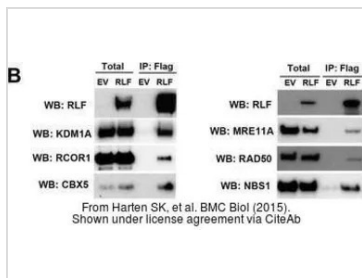


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GTx70222 ICC/IF Image

The data was published in the journal J Virol in 2017. [PMID: 28855246](https://pubmed.ncbi.nlm.nih.gov/28855246/)



GTx70222 WB Image

The data was published in the journal BMC Biol in 2015. [PMID: 25857663](https://pubmed.ncbi.nlm.nih.gov/25857663/)



For full product information, images and publications, please visit our [website](https://www.genetex.com).

Rad50 antibody [13B3]

Cat. No. GTX70228

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Application	WB, ICC/IF, IHC-P, IP, ChIP assay, IHC, in vitro, PLA
Reactivity	Human, Mouse, Rat, Monkey

Reference (120)

Package

100 µl

PRODUCT

Summary

Rad50 antibody detects RAD50, a ~154 kDa protein that, together with MRE11 and NBS1, forms the MRN complex that is intimately involved in DNA damage signaling, DNA double-strand break (DSB) repair, recombination, and replication. The complex is also involved other facets of genomic homeostasis including telomere maintenance. MRN plays a pivotal role in the DNA damage response (DDR) through interactions with ATM and ATR.

APPLICATION

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:500-1:3000
ICC/IF	1:100-1:1000
IHC-P	1:100-1:1000
IP	Assay dependent
ChIP assay	Assay dependent
IHC	Assay dependent
in vitro	Assay dependent
PLA	Assay dependent

Not tested in other applications.

Calculated MW 154 kDa. ([Note](#))

PROPERTIES

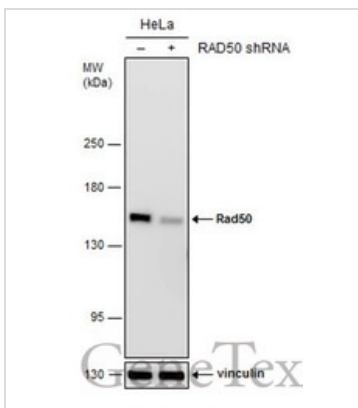
Form	Liquid
Buffer	PBS
Preservative	No preservative
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.



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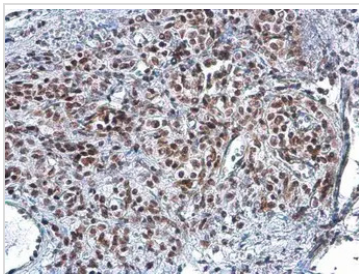
Concentration	1.7 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Amino acids 1-425 of Rad50 expressed in E. coli.
Purification	Affinity purified by Protein G.
Conjugation	Unconjugated
Note	For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES



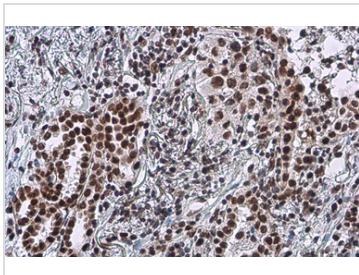
GTX70228 WB Image

Non-transfected (–) and transfected (+) HeLa whole cell extracts (30 µg) were separated by 5% SDS-PAGE, and the membrane was blotted with Rad50 antibody [13B3] (GTX70228) diluted at 1:500. The HRP-conjugated anti-mouse IgG antibody (GTX213111-01) was used to detect the primary antibody.



GTX70228 IHC-P Image

Rad50 antibody [13B3] detects Rad50 protein at nucleus by immunohistochemical analysis.
Sample: Paraffin-embedded human lung cancer.
Rad50 stained by Rad50 antibody [13B3] (GTX70228) diluted at 1:100.
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

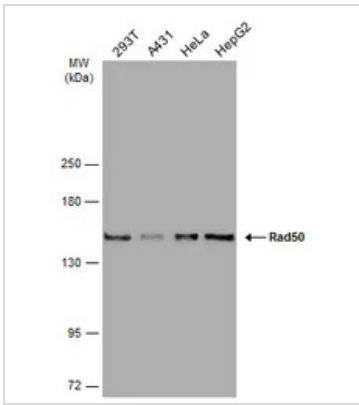


GTX70228 IHC-P Image

Rad50 antibody [13B3] detects Rad50 protein at nucleus by immunohistochemical analysis.
Sample: Paraffin-embedded human lung cancer.
Rad50 stained by Rad50 antibody [13B3] (GTX70228) diluted at 1:100.
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

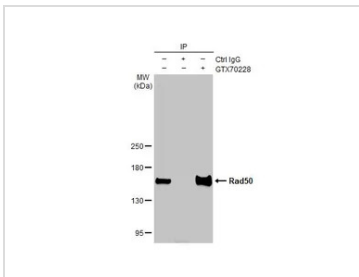


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GTx70228 WB Image

Various whole cell extracts (30 µg) were separated by 5% SDS-PAGE, and the membrane was blotted with Rad50 antibody [13B3] (GTx70228) diluted at 1:1000. The HRP-conjugated anti-mouse IgG antibody (GTx213111-01) was used to detect the primary antibody.

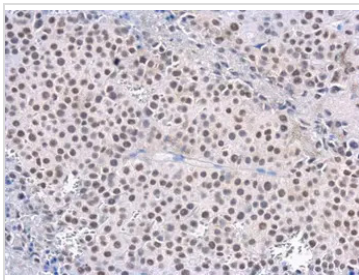


GTx70228 IP Image

Immunoprecipitation of Rad50 protein from NT2D1 whole cell extract using 5 µg of Rad50 antibody [13B3] (GTx70228).

Western blot analysis was performed using Rad50 antibody [13B3] (GTx70228).

EasyBlot HRP-conjugated anti mouse IgG antibody (GTx221667-01).



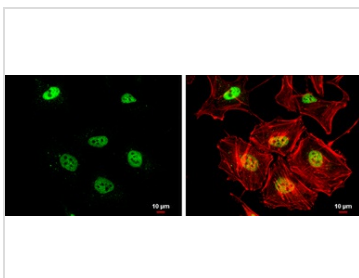
GTx70228 IHC-P Image

Rad50 antibody [13B3] detects Rad50 protein at nucleus in CAL 27 xenograft by immunohistochemical analysis.

Sample: Paraffin-embedded CAL 27 xenograft.

Rad50 antibody [13B3] (GTx70228) diluted at 1:200.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



GTx70228 ICC/IF Image

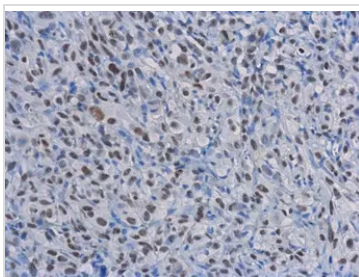
Rad50 antibody [13B3] detects Rad50 protein at nucleus by immunofluorescent analysis.

Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min.

Green: Rad50 protein stained by Rad50 antibody [13B3] (GTx70228) diluted at 1:200.

Red: phalloidin, a cytoskeleton marker, diluted at 1:200.

Scale bar = 10 µm.



GTx70228 IHC-P Image

Rad50 antibody [13B3] detects Rad50 protein at nucleus in PC-3 xenograft by immunohistochemical analysis.

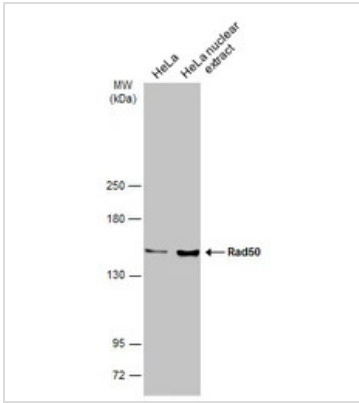
Sample: Paraffin-embedded PC-3 xenograft.

Rad50 antibody [13B3] (GTx70228) diluted at 1:200.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

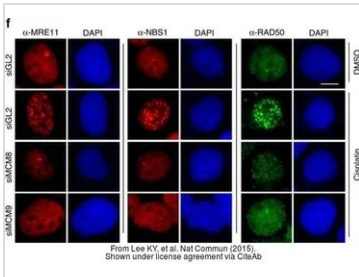


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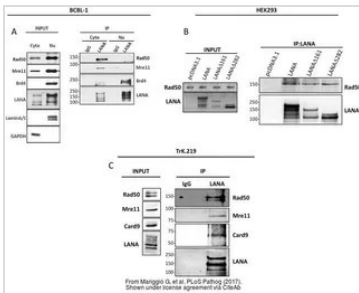
GTX70228 WB Image

HeLa whole cell and nuclear extracts (30 µg) were separated by 5% SDS-PAGE, and the membrane was blotted with Rad50 antibody [13B3] (GTX70228) diluted at 1:1000. The HRP-conjugated anti-mouse IgG antibody (GTX213111-01) was used to detect the primary antibody.



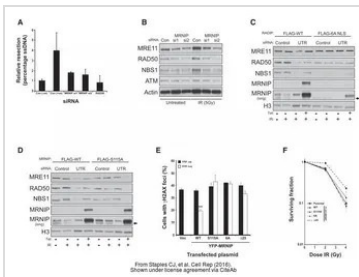
GTX70228 ICC/IF Image

The data was published in the journal Nat Commun in 2015. [PMID: 26215093](#)



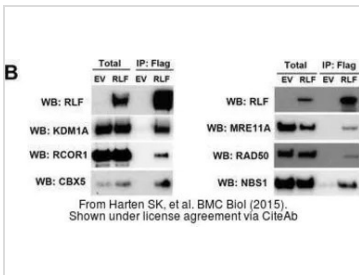
GTX70228 WB Image

The data was published in the journal PLoS Pathog in 2017. [PMID: 28430817](#)



GTX70228 WB Image

The data was published in the journal Cell Rep in 2016. [PMID: 27568553](#)

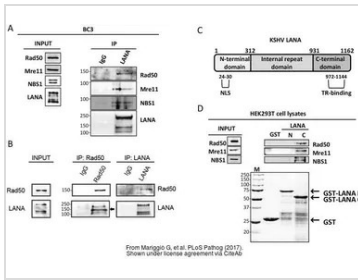


GTX70228 WB Image

The data was published in the journal BMC Biol in 2015. [PMID: 25857663](#)

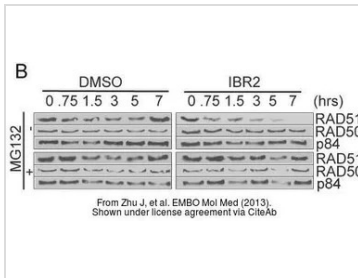


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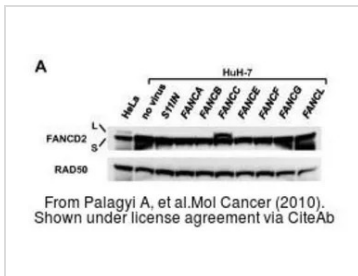
GTx70228 WB IP Image

The data was published in the journal PLoS Pathog in 2017. [PMID: 28430817](https://pubmed.ncbi.nlm.nih.gov/28430817/)



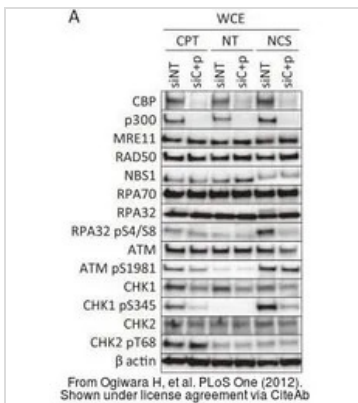
GTx70228 WB Image

The data was published in the journal EMBO Mol Med in 2013. [PMID: 23341130](https://pubmed.ncbi.nlm.nih.gov/23341130/)



GTx70228 WB Image

The data was published in the journal Mol Cancer in 2010. [PMID: 20509860](https://pubmed.ncbi.nlm.nih.gov/20509860/)

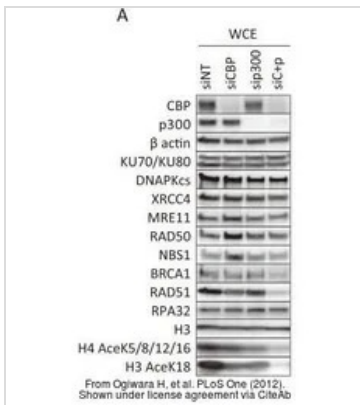


GTx70228 WB Image

The data was published in the journal PLoS One in 2012. [PMID: 23285190](https://pubmed.ncbi.nlm.nih.gov/23285190/)

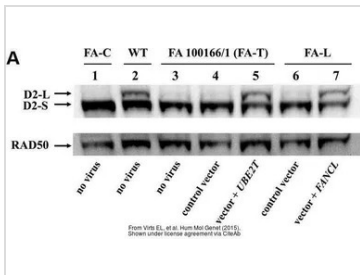


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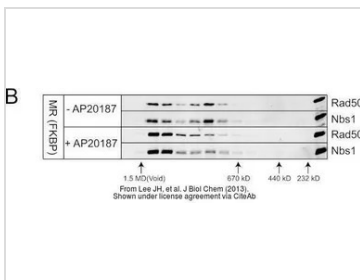
GTx70228 WB Image

The data was published in the journal PLoS One in 2012. [PMID: 23285190](#)



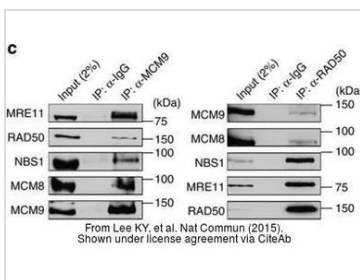
GTx70228 WB Image

The data was published in the journal Hum Mol Genet in 2015. [PMID: 26085575](#)



GTx70228 WB Image

The data was published in the journal J Biol Chem in 2013. [PMID: 23525106](#)



GTx70228 WB Image

The data was published in the journal Nat Commun in 2015. [PMID: 26215093](#)



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Ku80 antibody [149.8]

Cat. No. GTX70276

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Application	WB, ICC/IF
Reactivity	Human, Monkey

Reference (2)
Package
100 µl

APPLICATION

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:1000-1:10000
ICC/IF	1:100-1:1000

Not tested in other applications.

Calculated MW 83 kDa. ([Note](#))

PROPERTIES

Form	Liquid
Buffer	PBS
Preservative	No Preservative
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Recombinant antigen containing the carboxy terminal portion of human Ku80 protein
Purification	Protein G purified
Conjugation	Unconjugated

Note

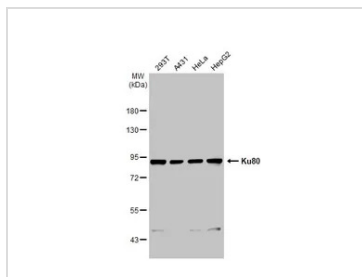
For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

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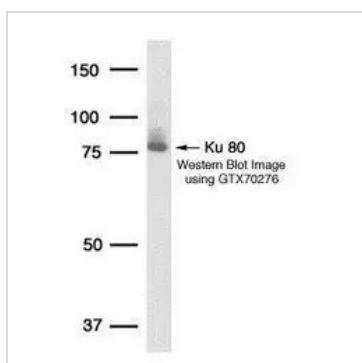
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DATA IMAGES



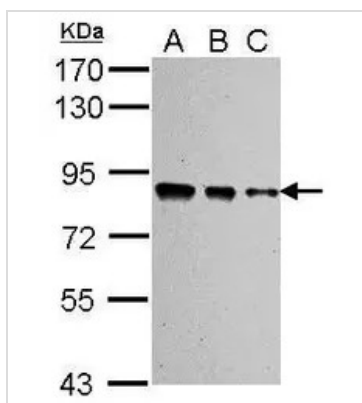
GTx70276 WB Image

Various whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Ku80 antibody [149.8] (GTx70276) diluted at 1:1000. The HRP-conjugated anti-mouse IgG antibody (GTx213111-01) was used to detect the primary antibody.



GTx70276 WB Image

Detection of human Ku80 protein in HeLa whole cell lysate using GeneTex Ku80 149.8 monoclonal antibody GTx70276.



GTx70276 WB Image

Sample (whole cell lysate)

A: 293T 20ug

B: 293T 10ug

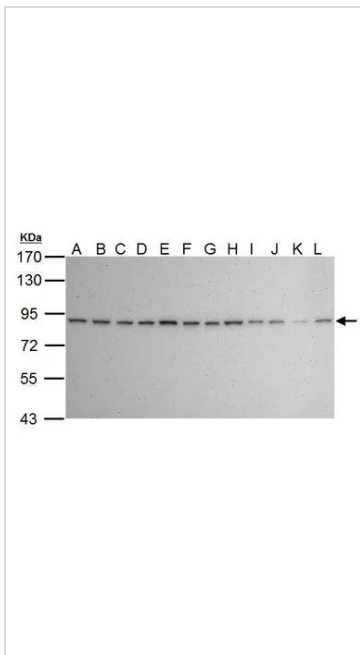
C: 293T 5ug

7.5% SDS PAGE

GTx70276 diluted at 1:10000



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GTX70276 WB Image

Sample (30 ug of whole cell lysate)

A: Jurkat

B: Raji

C: 293T

D: A431

E: HeLa

F: HepG2

G: H1299

H: HCT116

I: MCF-7

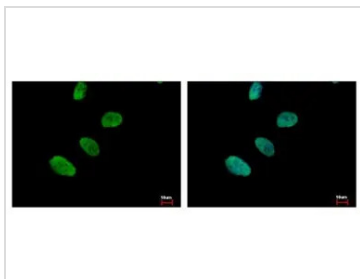
J: NT2D1

K: PC-3

L: U87-MG

7.5% SDS PAGE

GTX70276 diluted at 1:10000



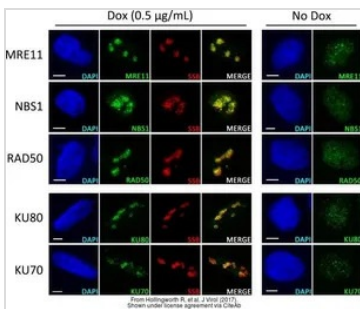
GTX70276 ICC/IF Image

Ku80 antibody [149.8] detects Ku80 protein at nucleus by immunofluorescent analysis.

Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min.

Green: Ku80 protein stained by Ku80 antibody [149.8] (GTX70276) diluted at 1:500.

Blue: Hoechst 33343 staining.

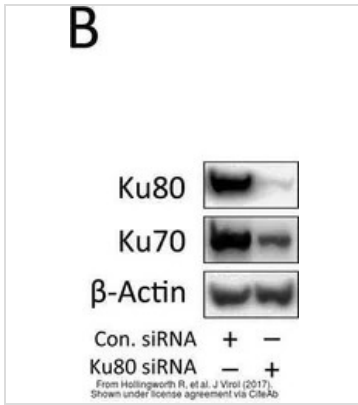


GTX70276 ICC/IF Image

The data was published in the journal J Virol in 2017. [PMID: 28855246](https://pubmed.ncbi.nlm.nih.gov/28855246/)



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GTX70276 WB Image

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