GTX300095

Phospho-Histone H3 (Mitotic Marker) Antibody Panel

Product Content

Cat No	Product Name	Reactivity	Applications	Package
GTX122148	Histone H3 antibody	Human, Mouse, Rat, Drosophila, Pig, Monkey, Fungi, Golden Syrian Hamster, Rice	WB, ICC/IF, IHC-P, IP, ChIP assay, IHC	25 µl
GTX128953	Histone H3S28ph (phospho Ser28) antibody	Human	WB, ICC/IF, IHC-P, Dot	25 µl
GTX213110-01	Goat Anti-Rabbit IgG antibody (HRP)	Rabbit	WB, IHC-P, ELISA	25 µl
GTX637402	Histone H3S10ph (phospho Ser10) antibody [HL1752]	Human, Mouse, Zebrafish	WB, ICC/IF, IHC-P, IHC-Wm	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.

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Histone H3 antibody

Cat. No. GTX122148

Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Applications	WB, ICC/IF, IHC-P, IP, ChIP assay, IHC
Reactivity	Human, Mouse, Rat, Drosophila, Pig, Monkey, Fungi, Golden Syrian Hamster, Rice

References (86)

Review (10)

Package
100 µl, 25 µl

PRODUCT

Summary Histone H3 antibody detects histone H3, a core component of the histone octamer in the context of the nucleosome. Like other histones, H3 is posttranslationally modified to impact epigenetic gene regulation. It is also highly conserved in eukaryotes, and therefore is used as an internal control for western blots or as a nuclear marker when conducting immunostaining.

Applications

Application Note

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

Suggested dilution	Recommended dilution
WB	1:500-1:10000
ICC/IF	1:100-1:1000
IHC-P	1:100-1:1000
IP	1:100-1:500
ChIP assay	Assay dependent
IHC	Assay dependent

Not tested in other applications.

Product Note KO/KD validation is based on published data (PMID: 35434046).

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 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Concentration	0.82 mg/ml (Please refer to the vial label for the specific concentration.)

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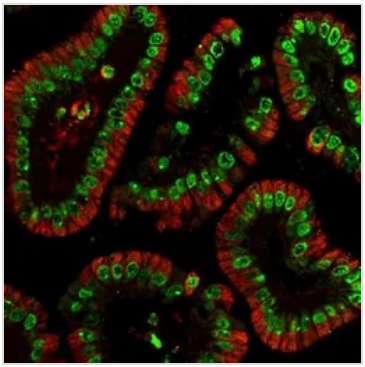
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the N-terminus region of human Histone H3. The exact sequence is proprietary.
Purification	Purified by antigen-affinity chromatography.
Conjugation	Unconjugated
Note	For laboratory research use only. Not for any clinical, 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.

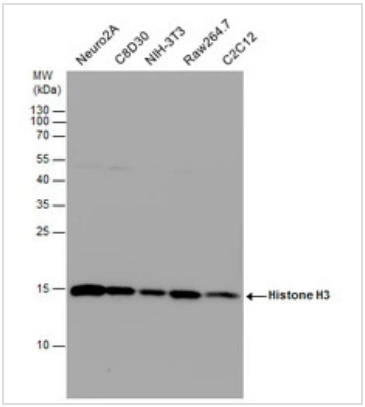
DATA IMAGES



GTX122148 IHC-P Image

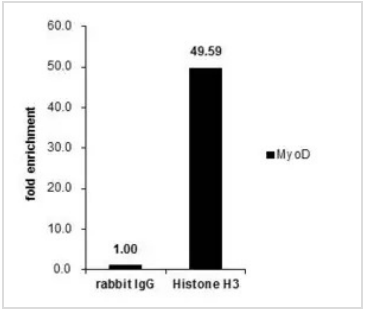
Histone H3 antibody detects Histone H3 protein at nucleus in mouse colon by immunohistochemical analysis.
Sample: Paraffin-embedded mouse colon.
Green: Histone H3 antibody (GTX122148) diluted at 1:500.

Red: alpha Tubulin antibody [GT114] (GTX628802) diluted at 1:500.
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



GTX122148 WB Image

Histone H3 antibody detects Histone H3 protein by western blot analysis. Various whole cell extracts (30 µg) were separated by 15% SDS-PAGE, and the membrane was blotted with Histone H3 antibody (GTX122148) diluted at a dilution of 1:10000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



GTX122148 ChIP assay Image

Cross-linked ChIP was performed with HeLa chromatin extract and 5 µg of either control rabbit IgG or anti-Histone H3 antibody. The precipitated DNA was detected by PCR with primer set targeting to MyoD.

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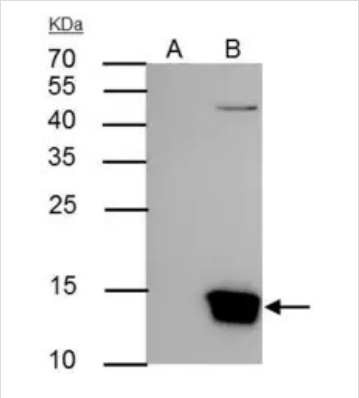
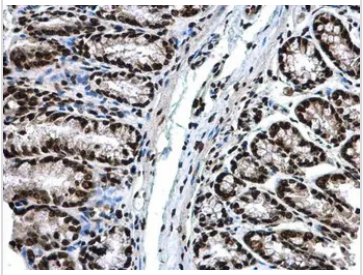


GTX122148 IP Image

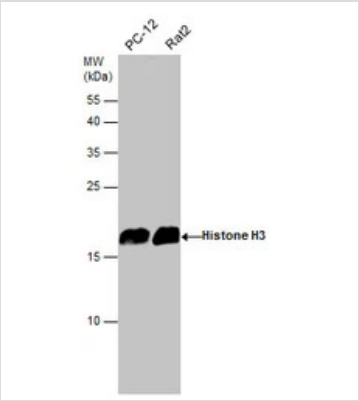
Histone H3 antibody immunoprecipitates Histone H3 protein in IP experiments. IP Sample: Raji whole cell lysate/extract A : Control with 3 µg of pre-immune rabbit IgG B : Immunoprecipitation of Histone H3 by 3 µg of Histone H3 antibody (GTX122148) 15% SDS-PAGE The immunoprecipitated Histone H3 protein was detected by Histone H3 antibody (GTX122148) diluted at 1:5000. EasyBlot anti-rabbit IgG (HRP) (GTX221666-01) was used as a secondary reagent.



GTX122148 IHC-P Image

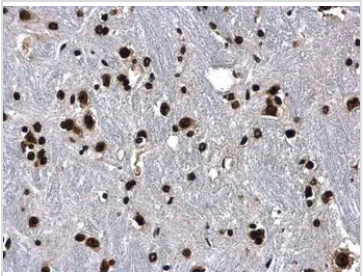
Histone H3 antibody detects Histone H3 protein at nucleus in mouse colon by immunohistochemical analysis.
Sample: Paraffin-embedded mouse colon.
Histone H3 antibody (GTX122148) diluted at 1:500.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



GTX122148 WB Image

Various whole cell extracts (30 µg) were separated by 15% SDS-PAGE, and the membrane was blotted with Histone H3 antibody (GTX122148) diluted at 1:3000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



GTX122148 IHC-P Image

Histone H3 antibody detects Histone H3 protein at nucleus in mouse brain by immunohistochemical analysis.
Sample: Paraffin-embedded mouse brain.
Histone H3 antibody (GTX122148) diluted at 1:500.

Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

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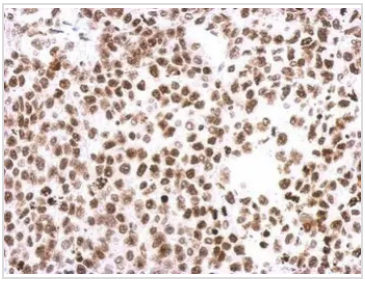
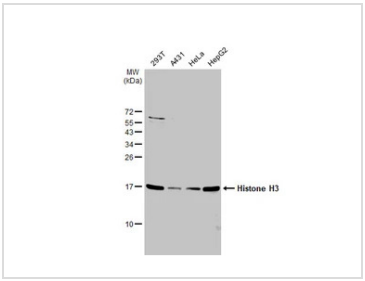
GTX122148 ICC/IF Image

Histone H3 antibody detects Histone H3 protein at nucleus by immunofluorescent analysis.
Sample: A431 cells were fixed in ice-cold MeOH for 5 min.
Green: Histone H3 protein stained by Histone H3 antibody (GTX122148) diluted at 1:500.
Blue: Hoechst 33342 staining.



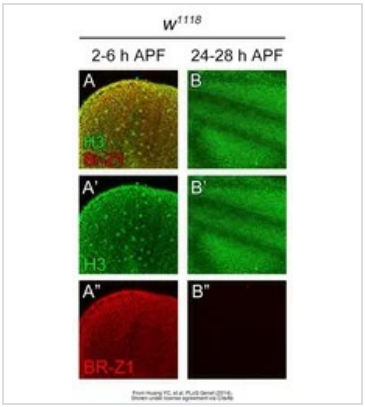
GTX122148 IHC-P Image

Immunohistochemical analysis of paraffin-embedded Hela xenograft, using Histone H3(GTX122148) antibody at 1:500 dilution.
Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min



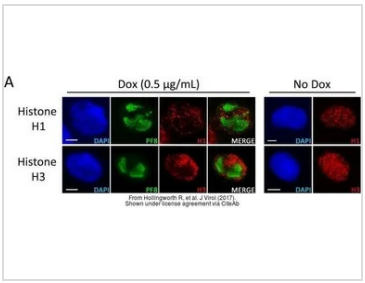
GTX122148 WB Image

Various whole cell extracts (30 µg) were separated by 15% SDS-PAGE, and the membrane was blotted with Histone H3 antibody (GTX122148) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



GTX122148 IHC Image

The data was published in the journal PLoS Genet in 2014. PMID: 25393278



GTX122148 ICC/IF Image

The data was published in the journal J Virol in 2017. PMID: 28855246

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Histone H3S28ph (phospho Ser28) antibody

Cat. No. GTX128953

Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Applications	WB, ICC/IF, IHC-P, Dot
Reactivity	Human

References (2)
Package
100 µl, 25 µl

Applications

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
Dot	Assay dependent

Not tested in other applications.

Properties

Form	Liquid
Buffer	PBS, 1% BSA, 20% Glycerol
Preservative	0.01% Thimerosal
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Carrier-protein conjugated synthetic peptide surrounding phospho Ser28 of human Histone H3. The exact sequence is proprietary.
Purification	Purified by antigen-affinity chromatography.
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.

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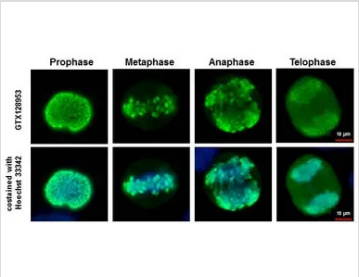
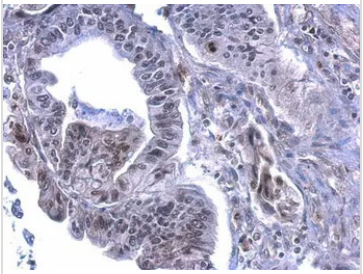
DATA IMAGES



GTX128953 ICC/IF Image

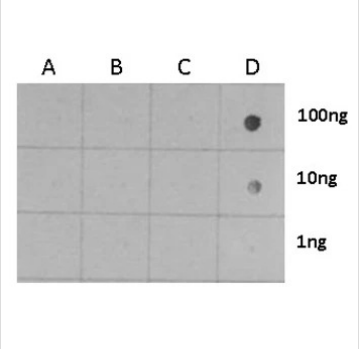
Histone H3 (phospho Ser28) antibody detects Histone H3 (phospho Ser28) protein at chromosome in assynchronous HeLa cells.
Sample: HeLa cells were fixed in 2% paraformaldehyde for 30 min.
Green: Histone H3 (phospho Ser28) protein stained by Histone H3 (phospho Ser28) antibody (GTX128953) diluted at 1:500.
Blue: Hoechst 33342 staining.



GTX128953 IHC-P Image

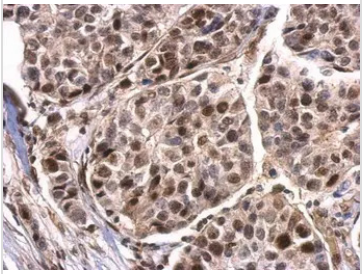
Histone H3 (phospho Ser28) antibody detects Histone H3 (phospho Ser28) protein at nucleus on human gastric cancer by immunohistochemical analysis.
Sample: Paraffin-embedded gastric cancer.
Histone H3 (phospho Ser28) antibody (GTX128953) dilution: 1:500.

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



GTX128953 Dot Image

Dotblot analysis of anti-Histone H3 (phospho Ser28) antibody with peptide samples.
Varied amount of peptide samples were spotted onto positively charged nylon membrane and blotted with Histone H3 (phospho Ser28) antibody (GTX128953) 1:5000 dilution.
A: Peptide samples of H3S10 un
B: Peptide samples of H3S10ph
C: Peptide samples of H3S28 un
D: Peptide samples of H3S28ph



GTX128953 IHC-P Image

Histone H3 (phospho Ser28) antibody detects Histone H3 (phospho Ser28) protein at nucleus on human breast cancer by immunohistochemical analysis.
Sample: Paraffin-embedded breast cancer.
Histone H3 (phospho Ser28) antibody (GTX128953) dilution: 1:500.

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

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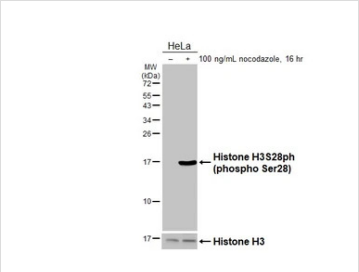

GTX128953 WB Image

Untreated (–) and treated (+) HeLa whole cell extracts (30 µg) were separated by 15% SDS-PAGE, and the membrane was blotted with Histone H3S28ph (phospho Ser28) antibody (GTX128953) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

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Goat Anti-Rabbit IgG antibody (HRP)

Cat. No. GTX213110-01

Host	Goat
Clonality	Polyclonal
Isotype	IgG
Applications	WB, IHC-P, ELISA
Reactivity	Rabbit

References (668)
Package
1 ml

Applications

Application Note

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

Suggested dilution	Recommended dilution
WB	1:5000-1:20000
IHC-P	1:100-1:1000
ELISA	1:5000-1:20000

Not tested in other applications.

Properties

Form	Liquid
Buffer	0.05M Tris, 0.15M NaCl
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 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Concentration	0.2 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Highly purified whole rabbit IgG
Purification	Purified by antigen-affinity chromatography.
Conjugation	Horseradish peroxidase(HRP)
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.

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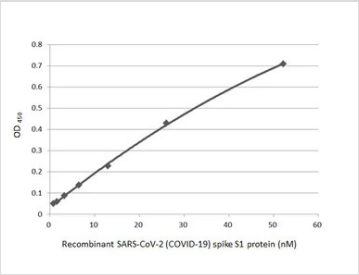
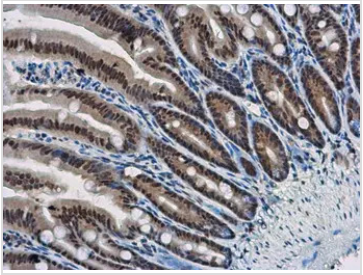
DATA IMAGES



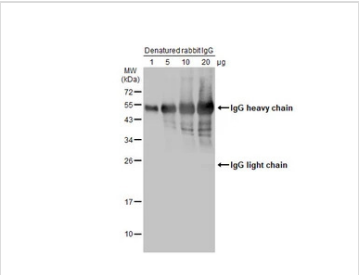
GTX213110-01 ELISA Image

Indirect ELISA analysis performed by coating plate with recombinant SARS-CoV-2 (COVID-19) Spike S1 protein, His tag (active) (GTX135817-pro) (52.15-0.81 nM). Coated protein was probed with SARS-CoV-2 (COVID-19) Spike S1 antibody [HL134] (GTX635671) (1 µg/mL). Goat anti-rabbit IgG antibody (HRP) (GTX213110-01) (1:10000) was used to detect bound primary antibody.



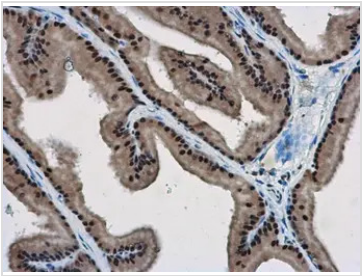
GTX213110-01 IHC-P Image

WBP11 antibody detects WBP11 protein at nucleus in mouse intestine by immunohistochemical analysis.
Sample: Paraffin-embeddedmouse intestine.
WBP11 antibody (GTX118654) diluted at 1:500.
The signal was developed byRabbit IgG antibody (HRP) (GTX213110-01)
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



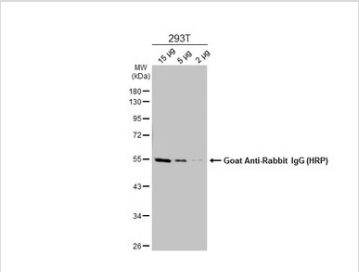
GTX213110-01 WB Image

Various amounts of denatured rabbit 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.



GTX213110-01 IHC-P Image

WBP11 antibody detects WBP11 protein at nucleus in rat prostate by immunohistochemical analysis.
Sample: Paraffin-embedded rat prostate.
WBP11 antibody (GTX118654) diluted at 1:500.
The signal was developed by Rabbit IgG antibody (HRP) (GTX213110-01).
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



GTX213110-01 WB Image

Various whole cell extracts were separated by 10% SDS-PAGE, and the membrane was blotted with alpha Tubulin antibody (GTX112141) diluted at 1:10000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

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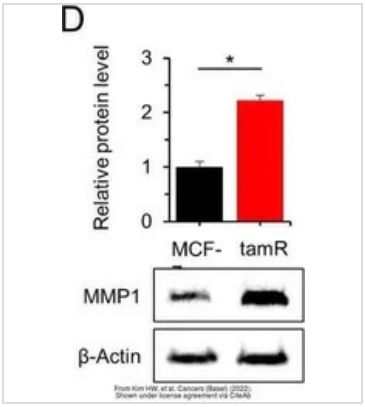
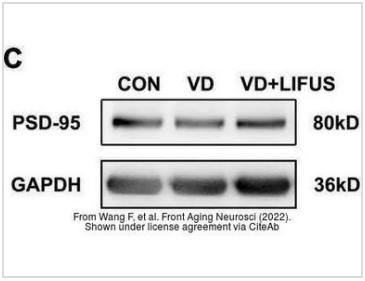


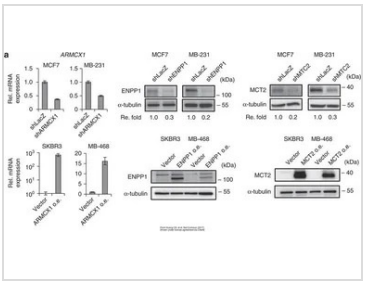
GTX213110-01 WB Image

The data was published in the 2022 in Cancers (Basel). PMID: 35267540



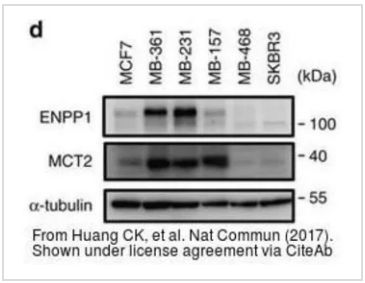
GTX213110-01 WB Image

The data was published in the 2022 in Front Aging Neurosci. PMID: 35264943



GTX213110-01 WB Image

The data was published in the 2017 in Nat Commun. PMID: 28281525



GTX213110-01 WB Image

The data was published in the 2017 in Nat Commun. PMID: 28281525

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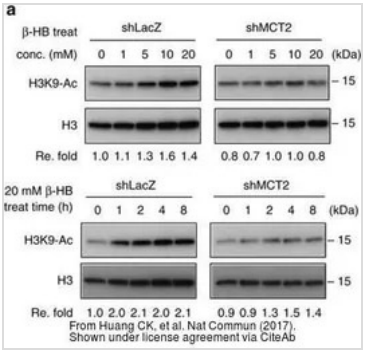
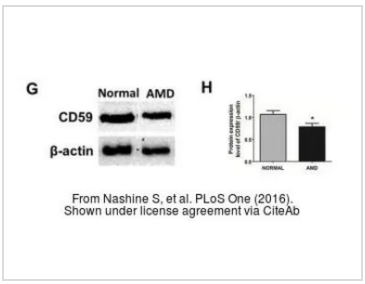


GTX213110-01 WB Image

The data was published in the 2017 in Nat Commun. PMID: 28281525



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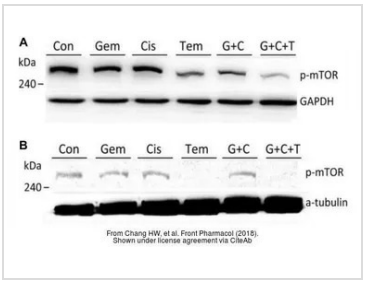

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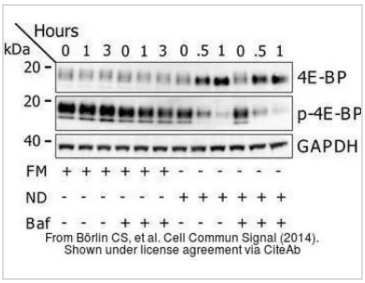

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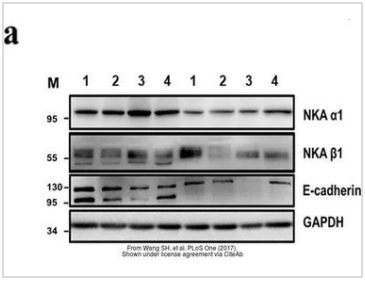

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The data was published in the journal PLoS One in 2017.PMID: 28832634

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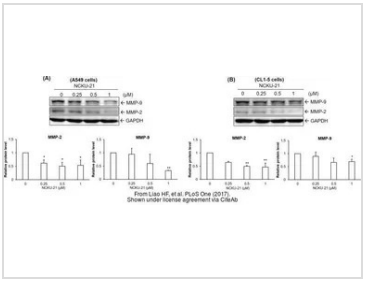

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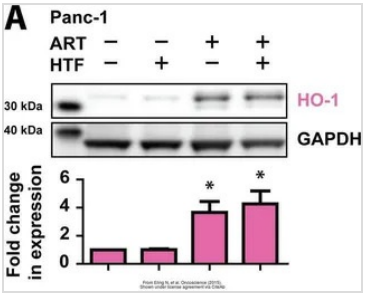

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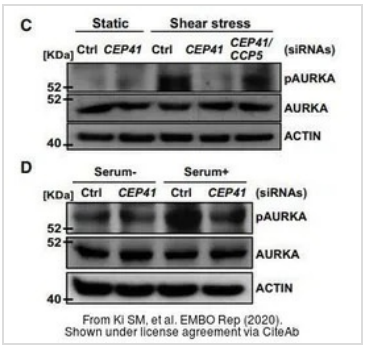

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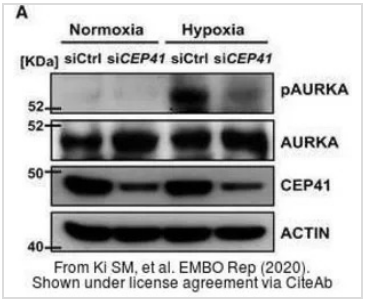
The data was published in the journal EMBO Rep in 2020. PMID: 31885126



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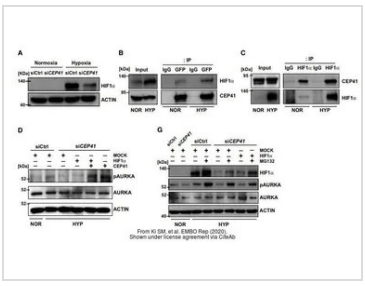

GTX213110-01 WB Image

The data was published in the journal EMBO Rep in 2020. PMID: 31885126

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Histone H3S10ph (phospho Ser10) antibody [HL1752]

Cat. No. GTX637402

Host	Rabbit
Clonality	Monoclonal
Isotype	IgG
Applications	WB, ICC/IF, IHC-P, IHC-Wm
Reactivity	Human, Mouse, Zebrafish

References (1)
Package
100 µl, 25 µl

Applications

Application Note

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

Suggested dilution	Recommended dilution
WB	1:500-1:3000
ICC/IF	Assay dependent
IHC-P	Assay dependent
IHC-Wm	Assay dependent

Not tested in other applications.

Observed MW (kDa) 17 kDa.

Properties

Form	Liquid
Buffer	PBS
Preservative	No preservatives
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Carrier-protein conjugated synthetic peptide surrounding phospho Ser10 of Histone H3. The exact sequence is proprietary.
Purification	Affinity purified by Protein A.
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.

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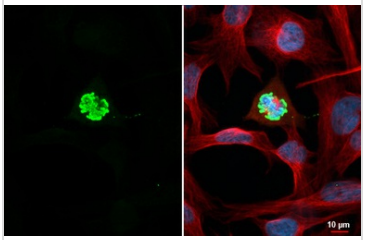
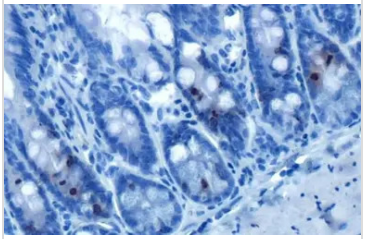
DATA IMAGES



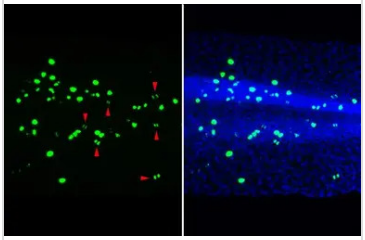
GTX637402 ICC/IF Image

Histone H3S10ph (phospho Ser10) antibody [HL1752] detects Histone H3S10ph (phospho Ser10) protein at chromosome by immunofluorescent analysis.
Sample: HeLa cells were fixed in 2% paraformaldehyde at 37ºC for 30 min.
Green: Histone H3S10ph (phospho Ser10) stained by Histone H3S10ph (phospho Ser10) antibody [HL1752] (GTX637402) diluted at 1:500.
Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [GT114] (GTX628802) diluted at 1:1000.
Blue: Fluoroshield with DAPI (GTX30920).



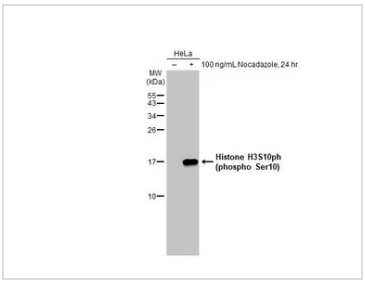
GTX637402 IHC-P Image

Histone H3S10ph (phospho Ser10) antibody [HL1752] detects Histone H3S10ph (phospho Ser10) protein at nucleus by immunohistochemical analysis.
Sample: Paraffin-embedded mouse intestine.
Histone H3S10ph (phospho Ser10) stained by Histone H3S10ph (phospho Ser10) antibody [HL1752] (GTX637402) diluted at 1:100.
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



GTX637402 IHC-Wm Image

Histone H3S10ph (phospho Ser10) antibody [HL1752] detects Histone H3S10ph (phospho Ser10) protein on whole mount zebrafish by immunohistochemical analysis.
Sample: Paraformaldehyde-fixed 2 days-post-fertilization zebrafish embryo.
Green: Histone H3S10ph (phospho Ser10) stained by Histone H3S10ph (phospho Ser10) antibody [HL1752] (GTX637402) diluted at 1:100.
Blue: Hoechst 33342 staining.
Antigen Retrieval: Tris-HCl buffer, pH 9.0, 20 min at 70ºC



GTX637402 WB Image

Untreated (–) and treated (+) HeLa whole cell extracts (30 µg) were separated by 15% SDS-PAGE, and the membrane was blotted with Histone H3S10ph (phospho Ser10) antibody [HL1752] (GTX637402) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

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