GTX300100

5-mc and 5-hmc antibody panel

Product Content

Cat No	Product Name	Reactivity	Applications	Package
GTX213111-01	Goat Anti-Mouse IgG antibody (HRP)	Mouse	WB, IHC-P, ELISA, IHC	25 µl
GTX629448	5-Methylcytosine / 5-mC antibody [GT4111]	Species independent, Mouse	IHC-P, IHC-Fr, IHC-Wm, Dot, EM, MeDIP	25 µl
GTX629701	5-Hydroxymethylcytosine / 5-hmC antibody [GT513]	Species independent	Dot, MeDIP	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.

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Goat Anti-Mouse IgG antibody (HRP)

Cat. No. GTX213111-01

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

References (469)
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
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 4ºC. For long-term storage, aliquot and store at -20ºC or below. Avoid multiple freeze-thaw cycles.
Concentration	0.78 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	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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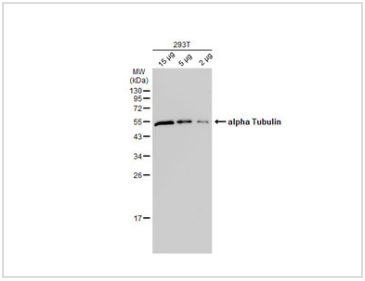
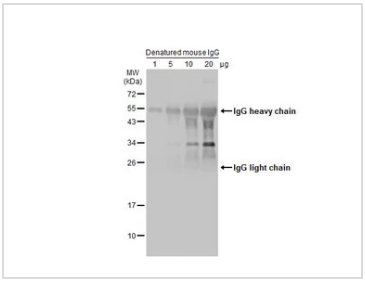
DATA IMAGES



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.



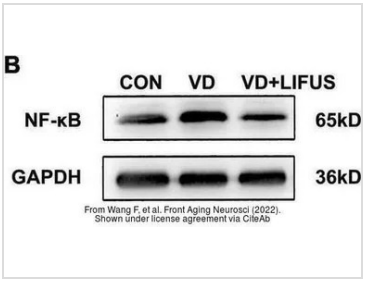
GTX213111-01 WB Image

Various amounts of denatured mouse IgG protein were separated by 12% SDS-PAGE, and the membrane was blotted with HRP-conjugated anti-mouse IgG antibody (GTX213111-01) diluted at 1:5000.



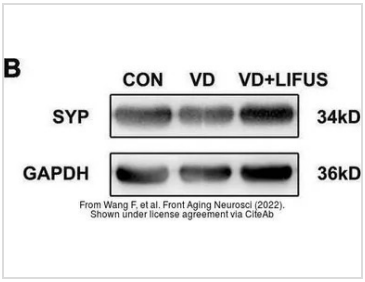
GTX213111-01 IHC-P Image

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

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

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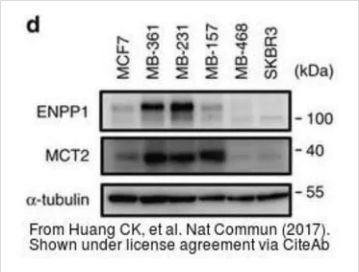
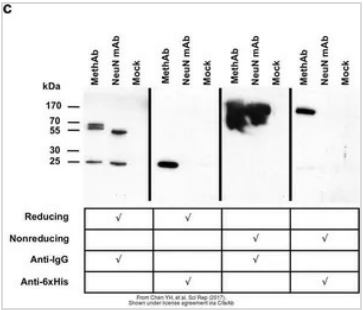


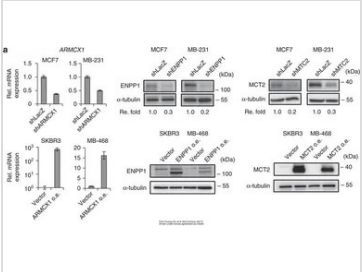
GTX213111-01 WB Image

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



GTX213111-01 WB Image

The data was published in the 2017 in Sci Rep. PMID: 28387350



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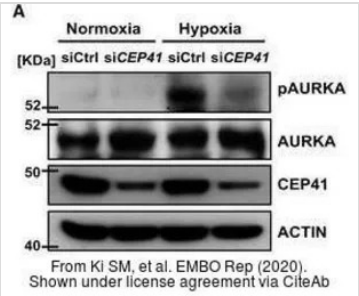
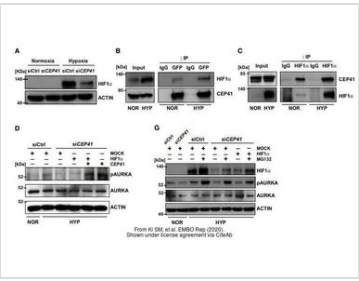


GTX213111-01 WB Image

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



GTX213111-01 WB Image

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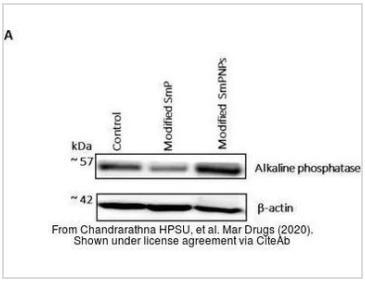
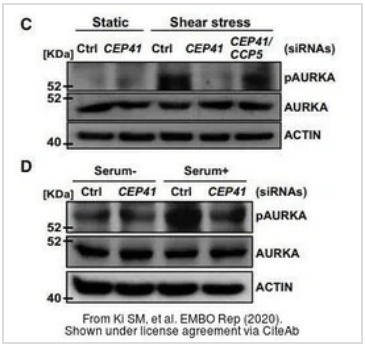


GTX213111-01 WB Image

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

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5-Methylcytosine / 5-mC antibody [GT4111]

Cat. No. GTX629448

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Applications	IHC-P, IHC-Fr, IHC-Wm, Dot, EM, MeDIP
Reactivity	Species independent, Mouse

References (12)

Review (2)

Package
100 µl, 25 µl

PRODUCT

Summary

5-mC antibody detects methylated cytosine, which is a key epigenetic regulatory modification of genomic DNA and is considered a "fifth base". The 5-mC mark is added by DNA methyltransferases (DNMTs) and serves predominately to turn off gene transcription. It is reversible via a DNA demethylation pathway triggered by the Ten-eleven translocation (TET) family of dioxygenases.

Applications

Application Note

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

Suggested dilution	Recommended dilution
IHC-P	1:100-1:1000
IHC-Fr	Assay dependent
IHC-Wm	1:50-1:500
Dot	Assay dependent
EM	Assay dependent
MeDIP	Assay dependent

Not tested in other applications.

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	1.7 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	The immunogen used to generate this antibody corresponds to 5-Methylcytosine / 5-mC
Purification	Affinity purified by Protein G.

For full product information, images and publications, please visit our website.

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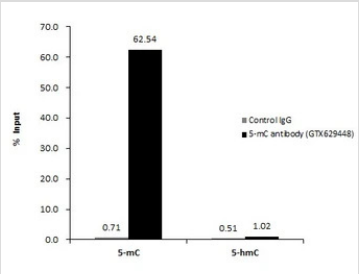
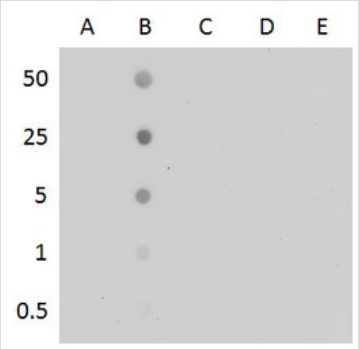
Conjugation	Unconjugated
Note	For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption. Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES



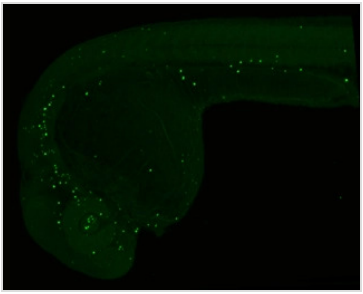
GTX629448 MeDIP Image

GTX629448 5-Methylcytosine/ 5-mC antibody [GT4111] in MeDIP experiment.
Human genomic DNA (500 ng) mixed with methylated cytosine standard kit (GTX400004) were subjected to MeDIP with 5-Methylcytosine/ 5-mC antibody [GT4111] (GTX629448) at dilution of 1:500 and analyzed with semi-quantitative PCR. The immunoprecipitated DNA was plotted as % of input DNA.



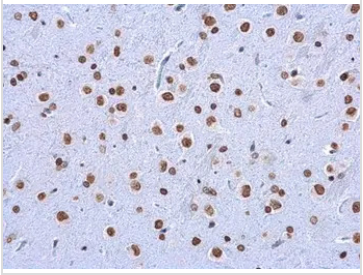
GTX629448 Dot Image

GTX629448 5-methylcytosine antibody [GT4111] Dot blot analysis of anti-5-mC antibody with the synthetic DNA controls (GTX400004). DNA samples (0.5 to 50 ng) were spotted onto positively charged nylon membrane and blotted with 5-mC antibody (GTX629448) at a dilution of 1:500. A: Unmethylated DNA fragment B: DNA fragment containing 5-methylcytosine C: DNA fragment containing 5-hydroxymethylcytosine D: DNA fragment containing 5-formylcytosine E: DNA fragment containing 5-carboxylcytosine



GTX629448 IHC-Wm Image

5-Methylcytosine / 5-mC antibody [GT4111] detects 5-Methylcytosine / 5-mC protein on zebrafish by whole mount immunohistochemical analysis.
Sample: 24 hours-post-fertilization zebrafish embryo.
5-Methylcytosine / 5-mC antibody [GT4111] (GTX629448) dilution: 1:50.



GTX629448 IHC-P Image

5-Methylcytosine / 5-mC antibody [GT4111] detects 5-Methylcytosine / 5-mC protein at nucleolus in rat brain by immunohistochemical analysis.
Sample: Paraffin-embedded rat brain.
5-Methylcytosine / 5-mC antibody [GT4111] (GTX629448) diluted at 1:200.
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

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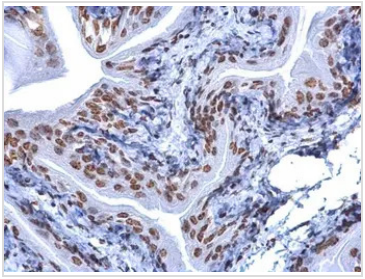
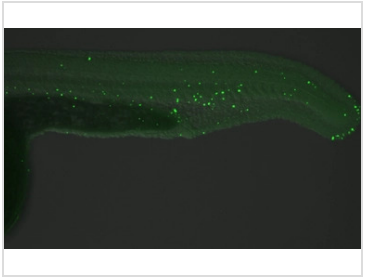


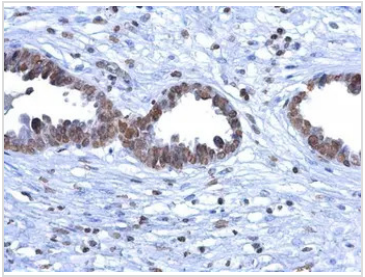
GTX629448 IHC-P Image

5-Methylcytosine / 5-mC antibody [GT4111] detects 5-Methylcytosine / 5-mC protein at nucleus on mouse urinary bladder by immunohistochemical analysis.
Sample: Paraffin-embedded mouse urinary bladder.
5-Methylcytosine / 5-mC antibody [GT4111] (GTX629448) dilution: 1:200.
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



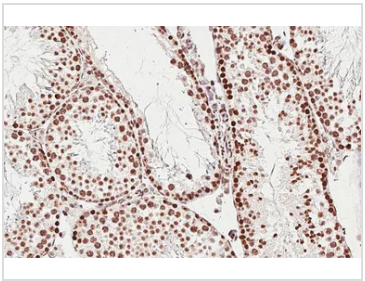
GTX629448 IHC-Wm Image

5-Methylcytosine / 5-mC antibody [GT4111] detects 5-Methylcytosine / 5-mC protein on zebrafish by whole mount immunohistochemical analysis.
Sample: 24 hours-post-fertilization zebrafish embryo.
5-Methylcytosine / 5-mC antibody [GT4111] (GTX629448) dilution: 1:50.



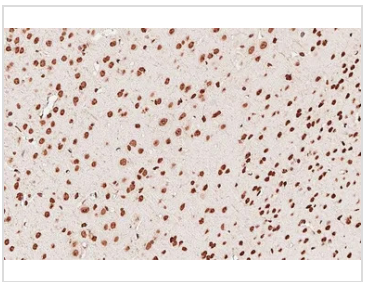
GTX629448 IHC-P Image

5-Methylcytosine / 5-mC antibody [GT4111] detects 5-Methylcytosine / 5-mC protein at nucleus on human ovarian carcinoma by immunohistochemical analysis.
Sample: Paraffin-embedded human ovarian carcinoma.
5-Methylcytosine / 5-mC antibody [GT4111] (GTX629448) dilution: 1:200.
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



GTX629448 IHC-P Image

5-Methylcytosine / 5-mC antibody [GT4111] detects 5-Methylcytosine / 5-mC protein by immunohistochemical analysis.
Sample: Paraffin-embedded mouse testis.
5-Methylcytosine / 5-mC stained by 5-Methylcytosine / 5-mC antibody [GT4111] (GTX629448) diluted at 1:200.
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



GTX629448 IHC-P Image

5-Methylcytosine / 5-mC antibody [GT4111] detects 5-Methylcytosine / 5-mC protein by immunohistochemical analysis.
Sample: Paraffin-embedded mouse cerebral cortex.
5-Methylcytosine / 5-mC stained by 5-Methylcytosine / 5-mC antibody [GT4111] (GTX629448) diluted at 1:200.
Antigen Retrieval: Citrate buffer, pH 6.0, 15 min

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5-Hydroxymethylcytosine / 5-hmC antibody [GT513]

Cat. No. GTX629701

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Applications	Dot, MeDIP
Reactivity	Species independent

References (2)
Package
100 µl, 25 µl

Applications

Application Note

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

Suggested dilution	Recommended dilution
Dot	Assay dependent
MeDIP	Assay dependent

Not tested in other applications.

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	The immunogen used to generate this antibody corresponds to 5-Hydroxymethylcytosine / 5-hmC
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.

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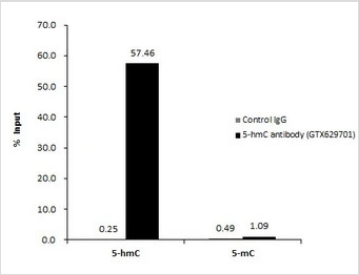
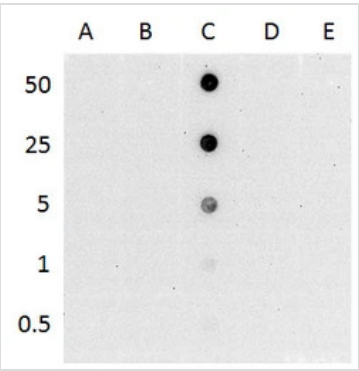
DATA IMAGES



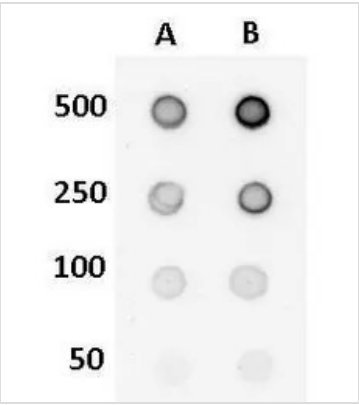
GTX629701 MeDIP Image

GTX629701 5-Hydroxymethylcytosine/ 5-hmC antibody [GT513] in MeDIP experiment.
Human genomic DNA (500 ng) mixed with methylated cytosine standard kit (GTX400004) were subjected to MeDIP with 5-Hydroxymethylcytosine/ 5-hmC antibody [GT513] (GTX629701) at dilution of 1:500 and analyzed with semi-quantitative PCR. The immunoprecipitated DNA was plotted as % of input DNA.



GTX629701 Dot Image

GTX629701 5-hydroxymethylcytosine antibody [GT513] Dot blot analysis of anti-5-hmC antibody with the synthetic DNA controls (GTX400004). DNA samples (0.5 to 50 ng as indicated) were spotted onto the positively charged Nylon membrane and blotted with 5-hmC antibody (GTX629701) at a dilution of 1:500.
A: Unmethylated DNA fragment B: DNA fragment containing 5-methylcytosine C: DNA fragment containing 5-hydroxymethylcytosine D: DNA fragment containing 5-formylcytosine E: DNA fragment containing 5-carboxylcytosine



GTX629701 Dot Image

Dotblot analysis of anti- 5-Hydroxymethylcytosine / 5-hmC antibody [GT513] with DNA samples
DNA samples (50 to 500 ng as indicated) were spotted onto positively charged nylon membrane and blotted with 5-Hydroxymethylcytosine / 5-hmC antibody [GT513] (GTX629701) at a dilution of 1:500.
A: Genomic DNA derived from 293T cells.
B: Genomic DNA derived from human TET-1 transfected 293T cells.

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