

Product Datasheet

5-MethylCytosine Antibody (RM231) NBP2-61470

Unit Size: 50 ug

Store at -20C. Avoid freeze-thaw cycles.

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NBP2-61470**5-MethylCytosine Antibody (RM231)****Product Information**

Unit Size	50 ug
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	RM231
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	50% Glycerol/PBS, 1% BSA

Product Description

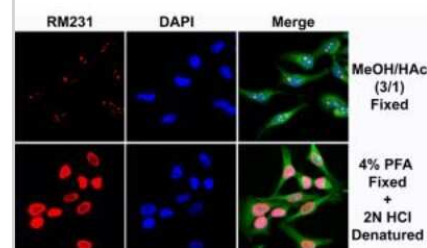
Description	Novus Biologicals Rabbit 5-MethylCytosine Antibody (RM231) (NBP2-61470) is a recombinant monoclonal antibody validated for use in IHC, ELISA, Flow and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Species	Vertebrate
Specificity/Sensitivity	This antibody reacts to 5-MethylCytosine in both single-stranded and double-stranded DNA. No cross reactivity with non-methylated cytosine and hydroxymethylcytosine in DNA.
Immunogen	BSA-conjugated 5-MethylCytosine

Product Application Details

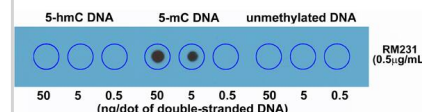
Applications	Dot Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Methylated DNA Immunoprecipitation
Recommended Dilutions	Flow Cytometry 0.5 ug/ml-2 ug/ml, ELISA 0.1 ug/ml - 1 ug/ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 0.5 ug/ml - 2 ug/ml, Dot Blot 0.5 ug/ml - 2 ug/ml, Methylated DNA Immunoprecipitation 0.2 ug/ml - 2 ug/ml

Images

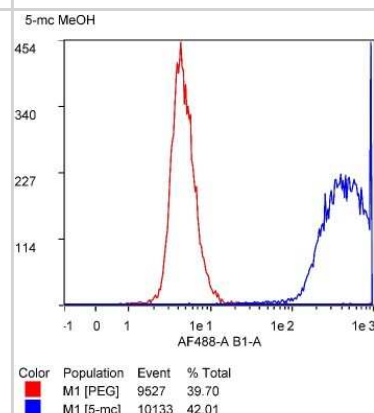
Immunocytochemistry/Immunofluorescence: 5-MethylCytosine Antibody (RM231) [NBP2-61470] - Immunocytochemical staining of HeLa cells using NBP2-61470 (red). Actin filaments have been labeled with fluorescein phalloidin (green), and nuclei stained with DAPI (blue).



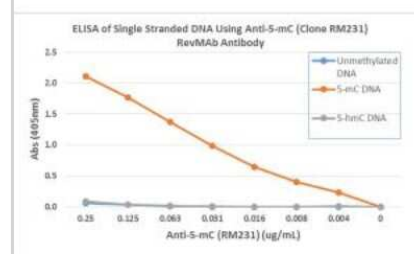
Dot Blot: 5-MethylCytosine Antibody (RM231) [NBP2-61470] - Dot blot of double stranded DNA using RM231. The membrane was pre-spotted with 50, 5, and 0.5 ng/dot of double stranded 5-Hydroxymethylcytosine (5-hmC) DNA, 5-Methylcytosine (5-mC) DNA, and unmethylated DNA. The pre-spotted membrane was then blotted with RM231.



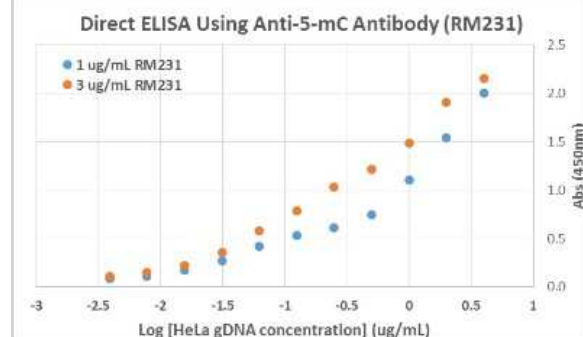
Flow Cytometry: 5-MethylCytosine Antibody (RM231) [NBP2-61470] - Flow Cytometry analysis of 5-MethylCytosine expression in HEK293 cells using NBP2-61470. The cells were fixed with ice-cold MeOH, permeabilized with 0.5% Triton X-100, denatured with 2N HCl, then stained with NBP2-61470 (Blue) or with a negative control antibody



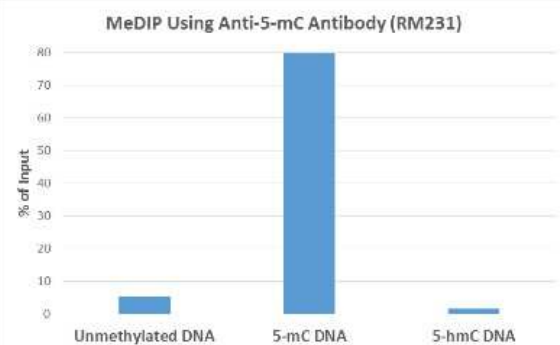
ELISA: 5-MethylCytosine Antibody (RM231) [NBP2-61470] - ELISA of single stranded DNA using NBP2-61470. The plate was coated with streptavidin and then biotinylated single stranded unmethylated DNA, 5-Methylcytosine (5-mC) DNA, and 5-Hydroxymethylcytosine (5-hmC) DNA. A serial dilution of NBP2-61470 was used as the primary antibody, and an alkaline phosphatase conjugated anti-Rabbit IgG as the secondary antibody.



ELISA: 5-MethylCytosine Antibody (RM231) [NBP2-61470] - Direct ELISA of HeLa cell genomic DNA using NBP2-61470. The plate was directly coated with different concentrations of genomic DNA isolated from HeLa cells. NBP2-61470 was used as the primary antibody, and a HRP conjugated Anti-Rabbit IgG as the secondary antibody.



Methylated DNA Immunoprecipitation: 5-MethylCytosine Antibody (RM231) [NBP2-61470] - MeDIP was performed using NBP2-61470 at a 2:1 DNA: Ab ratio. 1 ng of unmethylated, 5-Methylcytosine (5-mC) or 5-Hydroxymethylcytosine (5-hmC) DNA standard (897 bp) was spiked in 1ug of genomic DNA isolated from HeLa cells as the control. Realtime PCR was then performed to determine the capture of DNA standard as in % of input.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-61470

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-62131	5-MethylCytosine ELISA Kit (Colorimetric)

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

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