

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)**

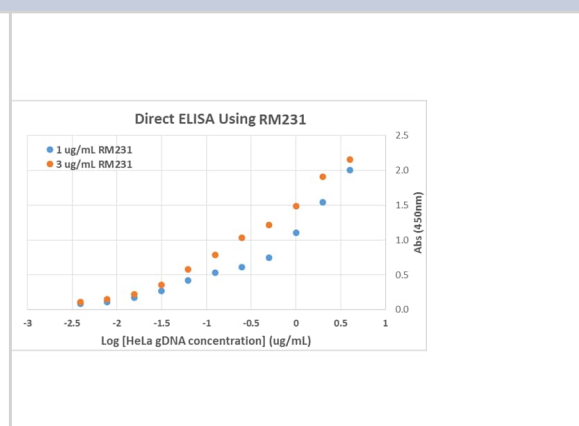
Product Information	
Unit Size	50 ug
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	RM231
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	50% Glycerol/PBS, 1% BSA

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

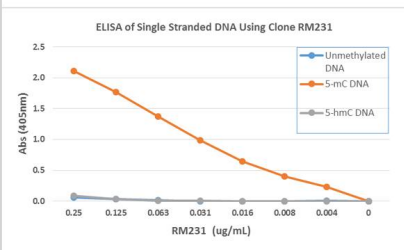
Product Application Details	
Applications	Dot Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Methylated DNA Immunoprecipitation
Recommended Dilutions	Flow Cytometry 0.5 ug/ml-2 ug/ml, ELISA 0.1 ug/ml - 1 ug/ml, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence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

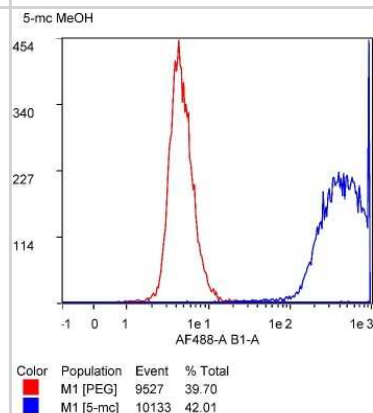
ELISA: 5-MethylCytosine Antibody (RM231) [NBP2-61470] - Direct ELISA of HeLa cell genomic DNA using NBP2-61470. The plate was directly coated with different concentrations of genomic DNA isolated from HeLa cells. NBP2-61470 was used as the primary antibody, and a HRP conjugated Anti-Rabbit IgG as the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



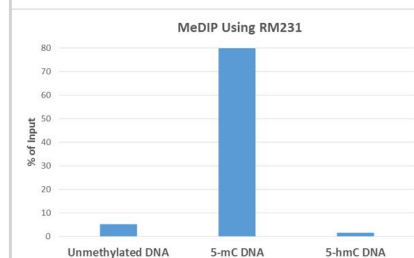
ELISA: 5-MethylCytosine Antibody (RM231) [NBP2-61470] - ELISA of single stranded DNA using NBP2-61470. The plate was coated with streptavidin and then biotinylated single stranded unmethylated DNA, 5-Methylcytosine (5-mC) DNA, and 5-Hydroxymethylcytosine (5-hmC) DNA. A serial dilution of NBP2-61470 was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



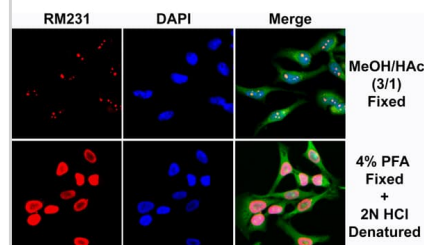
Flow Cytometry: 5-MethylCytosine Antibody (RM231) [NBP2-61470] - Flow Cytometry analysis of 5-MethylCytosine expression in HEK293 cells using NBP2-61470. The cells were fixed with ice-cold MeOH, permeabilized with 0.5% Triton X-100, denatured with 2N HCl, then stained with NBP2-61470 (Blue) or with a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



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.



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).





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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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