

# Product Datasheet

## 5-hmC Antibody (RM236) NBP2-61469

Unit Size: 50 ug

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

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**NBP2-61469**

5-hmC Antibody (RM236)

**Product Information**

<b>Unit Size</b>	50 ug
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	RM236
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A purified
<b>Buffer</b>	50% Glycerol/PBS, 1% BSA

**Product Description**

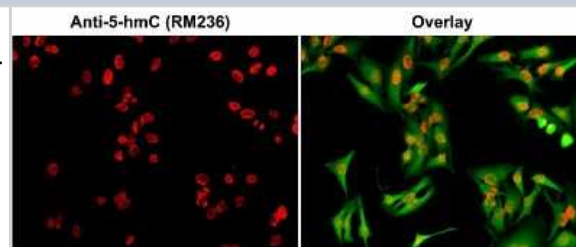
<b>Description</b>	Novus Biologicals Rabbit 5-hmC Antibody (RM236) (NBP2-61469) is a recombinant monoclonal antibody validated for use in IHC, ELISA, Flow and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Species</b>	Vertebrate
<b>Specificity/Sensitivity</b>	This antibody reacts to 5-hmC in both single-stranded and double-stranded DNA. No cross reactivity with non-methylated cytosine and methylcytosine in DNA.
<b>Immunogen</b>	BSA-conjugated 5-hmC

**Product Application Details**

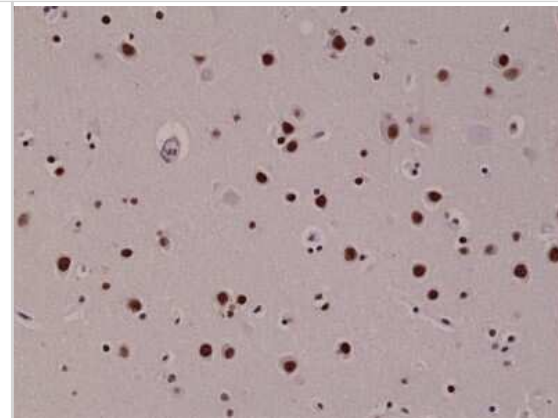
<b>Applications</b>	Immunohistochemistry-Paraffin, Dot Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Methylated DNA Immunoprecipitation
<b>Recommended Dilutions</b>	Flow Cytometry 1 ug/ml-5 ug/ml, ELISA 0.1 ug/ml - 1 ug/ml, Immunohistochemistry 0.1 ug/ml - 1 ug/ml, Immunocytochemistry/ Immunofluorescence 0.5 ug/ml - 2 ug/ml, Immunohistochemistry-Paraffin, Dot Blot 0.2 ug/ml - 1 ug/ml, Methylated DNA Immunoprecipitation 0.2 ug/ml - 2ug/ml

**Images**

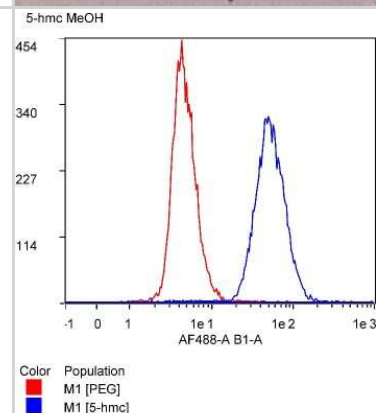
Immunocytochemistry/Immunofluorescence: 5-hmC Antibody (RM236) [NBP2-61469] - Immunocytochemical staining of HeLa cells using NBP2-61469 at 0.5 ug/ml (red) . Actin filaments was labeled with fluorescein phalloidin green). HeLa cells were fixed with 4% paraformaldehyde and permeabilized with methanol (-20C) before treatment with 2 N HCl for 30 min at 37C to denature the DNA.



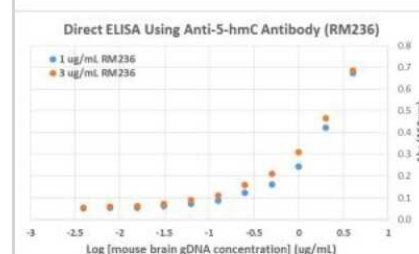
**Immunohistochemistry: 5-hmC Antibody (RM236) [NBP2-61469] -** Immunohistochemical staining of formalin fixed and paraffin embedded Human brain tissue sections, using NBP2-61469



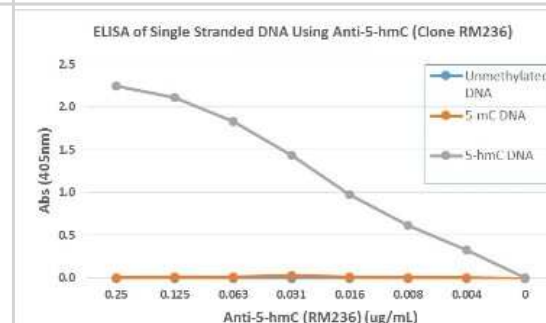
**Flow Cytometry: 5-hmC Antibody (RM236) [NBP2-61469] -** Flow Cytometry analysis of 5-hmC expression in HEK293 cells using NBP2-61470. The cells were fixed with ice-cold MeOH, permeabilized with 0.5% Triton X-100, denatured with 2N HCl, then stained with NBP2-61469 (Blue) or with a negative control antibody (red)



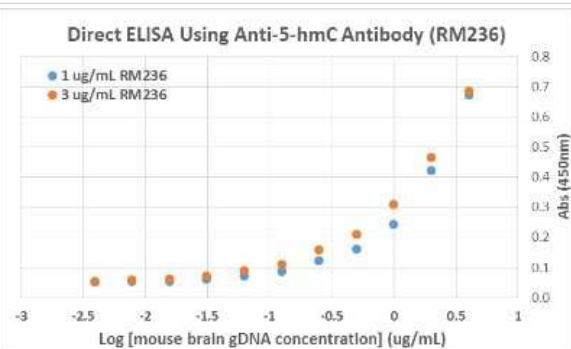
**ELISA: 5-hmC Antibody (RM236) [NBP2-61469] -** Direct ELISA of Mouse brain genomic DNA using Anti-5-hmC antibody (NBP2-61469). The plate was directly coated with different concentrations of genomic DNA isolated from Mouse brain tissue. NBP2-61469 was used as the primary antibody, and a HRP conjugated Anti-Rabbit IgG as the secondary antibody.



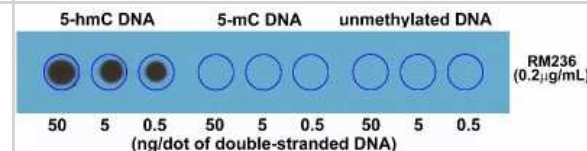
**ELISA: 5-hmC Antibody (RM236) [NBP2-61469] -** ELISA of single stranded DNA using Anti-5-hmC antibody (NBP2-61469). The plate was coated with streptavidin and then biotinylated single stranded unmethylated DNA, 5-Methylcytosine (5-mC) DNA, and 5-Hydroxymethylcytosine (5-hmC) DNA. A serial dilution of NBP2-61469 was used as the primary antibody, and an alkaline phosphatase conjugated Anti-Rabbit IgG as the secondary antibody.



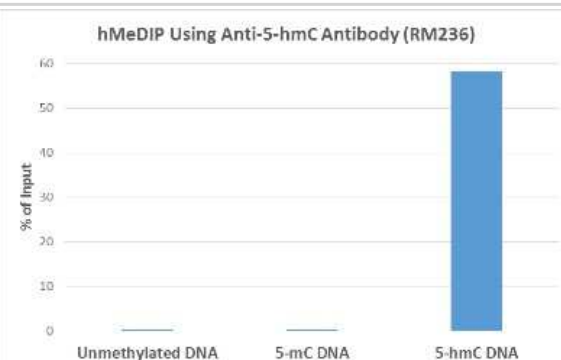
**ELISA: 5-hmC Antibody (RM236) [NBP2-61469]** - Direct ELISA of Mouse brain genomic DNA using Anti-5-hmC antibody (NBP2-61469). The plate was directly coated with different concentrations of genomic DNA isolated from Mouse brain tissue. NBP2-61469 was used as the primary antibody, and a HRP conjugated Anti-Rabbit IgG as the secondary antibody.



**Dot Blot: 5-hmC Antibody (RM236) [NBP2-61469]** - Dot blot of double stranded DNA using NBP2-61469. The membrane was pre-spotted with double stranded 5-Hydroxymethylcytosine (5-hmC) DNA, 5-Methylcytosine (5-mC) DNA, and unmethylated DNA.



**Methylated DNA Immunoprecipitation: 5-hmC Antibody (RM236) [NBP2-61469]** - hMeDIP was performed using Anti-5-hmC antibody (NBP2-61469) at a 10:1 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.





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### **Products Related to NBP2-61469**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **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.

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