

Product Datasheet

5-hmC Antibody NBP2-59182

Unit Size: 100 ul

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

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NBP2-59182

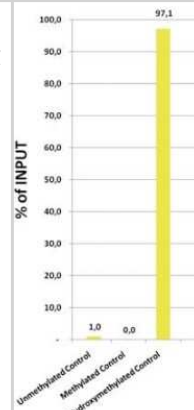
5-hmC Antibody

Product Information	
Unit Size	100 ul
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Whole Antiserum
Buffer	Serum
Product Description	
Host	Rabbit
Species	Human, Mouse
Immunogen	The exact immunogen is proprietary information.
Product Application Details	
Applications	Dot Blot, ELISA, Methylated DNA Immunoprecipitation
Recommended Dilutions	ELISA 1:500, Dot Blot 1:200, Methylated DNA Immunoprecipitation 2.5 ug/IP

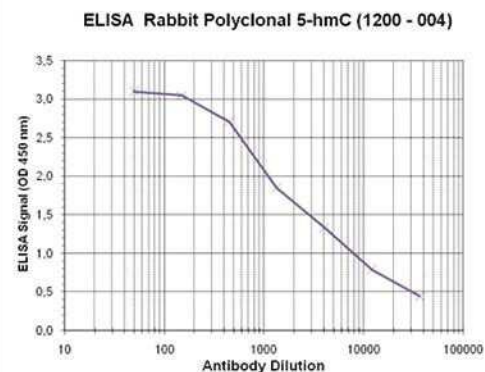


Images

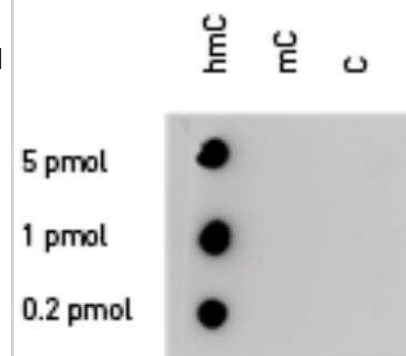
Methylated DNA Immunoprecipitation: 5-hmC Antibody [NBP2-59182] - An hydroxymethylated DNA IP (hMeDIP) was performed using the rabbit polyclonal antibody directed against 5-hydroxymethylcytosine. The IgG isotype antibodies from rabbit were used as negative control. The DNA was prepared with the GenDNA module of the hMeDIP kit and sonicated to have DNA fragments of 300-500 bp. 1 ug of human HeLa cell DNA was spiked with non-methylated, methylated, and hydroxymethylated fragments. The IP'd material was analysed by qPCR using the primer pair specific for the 3 different control sequences. The obtained results show that the rabbit polyclonal for 5-hmC is highly specific for this base modification (no IP with non-methylated or methylated C bases containing fragments).



ELISA: 5-hmC Antibody [NBP2-59182] - To determine the titer, an ELISA was performed using a serial dilution of the rabbit polyclonal antibody directed against 5-hmC in antigen coated wells. The antigen used was BSA coupled to the 5-hmC base. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1: 3,500.



Dot Blot: 5-hmC Antibody [NBP2-59182] - 100 to 4 ng (equivalent of 5 to 0.2 pmol of C-bases) of the hmC, mC and C PCR controls were spotted on a membrane (Amersham Hybond-N+). The membrane was incubated with the rabbit 5-hydroxymethylcytosine polyclonal antibody (dilution 1:200). The membranes were exposed for 30 seconds.





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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.

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

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