# **Product Datasheet**

## 5-hmC Antibody - BSA Free NBP2-59184

Unit Size: 50 ug

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

www.novusbio.com



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### NBP2-59184

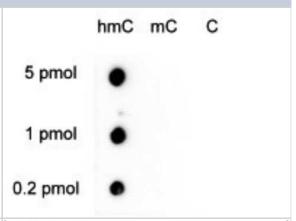
5-hmC Antibody - BSA Free

5-nmc Aniibody - BSA Free	
Product Information	
Unit Size	50 ug
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 and 0.05% ProClin 300
Isotype	IgG
Purity	Protein G purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Rabbit 5-hmC Antibody - BSA Free (NBP2-59184) is a polyclonal antibody validated for use in ELISA. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Species	Human, Mouse, Xenopus, Zebrafish
Immunogen	The exact immunogen is propietary information.
Product Application Details	
Applications	Dot Blot, ELISA, Methylated DNA Immunoprecipitation
Recommended Dilutions	ELISA 1:100 - 1:500, Dot Blot 1:1000, Methylated DNA Immunoprecipitation 3.5 ug/IP

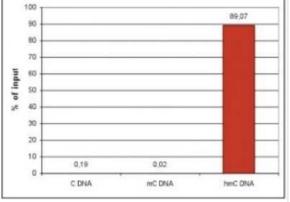


#### **Images**

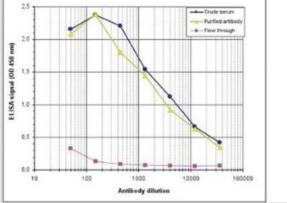
Dot Blot: 5-hmC Antibody [NBP2-59184] - To demonstrate the specificity of the antibody against 5-hmC, a Dot blot analysis was performed using hmC, mC and C controls. One hundred to 4 ng (equivalent of 5 to 0.2 pmol of C-bases) of the controls were spotted on a membrane (Amersham Hybond-N+). The antibody was used at a dilution of 1:1,000. Figure shows a high specificity of the antibody for the hydroxymethylated control.



Methylated DNA Immunoprecipitation: 5-hmC Antibody [NBP2-59184] - hMeDIP (hydroxymethylated DNA IP) was performed using the antibody against 5-hydroxymethylcytosine. DNA from mouse ES cells was prepared and sonicated to obtain DNA fragments of 300-500 bp. One ug of sheared DNA was spiked with the unmethylated (C) methylated (mC), and hydroxymethylated (hmC) controls. hMeDIP was performed with 3.5 ug of the rabbit 5-hmC antibody and the IP'd DNA was analysed by qPCR using primers specific for the 3 different control sequences. Figure shows that the rabbit polyclonal antibody against 5-hmC is highly specific for the 5-hmC base modification (no IP with non-methylated or methylated C control fragments).



ELISA: 5-hmC Antibody [NBP2-59184] - To determine the titer, an ELISA was performed using a serial dilution of the antibody directed against 5-hmC, crude serum and flow through, in antigen coated wells. The antigen used was the 5-hmC base coupled to BSA. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:2,800.





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#### **Products Related to NBP2-59184**

HAF008 Goat anti-Rabbit IgG Secondary Antibody [HRP]

NB7160 Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]

NBP2-24891 Rabbit IgG Isotype Control

#### 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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