# **Product Datasheet**

# 5-hmC Antibody (C.15220001) - BSA Free NBP2-59178

Unit Size: 100 ug

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

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#### NBP2-59178

**Recommended Dilutions** 

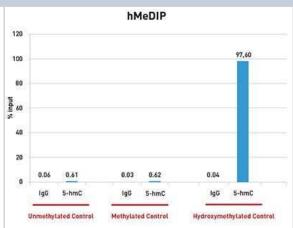
5-hmC Antibody (C.15220001) - BSA Free	
Product Information	
Unit Size	100 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	C.15220001
Preservative	0.05% Sodium Azide
Isotype	lgG2a
Purity	Affinity purified
Buffer	PBS
Product Description	
Description	Novus Biologicals Rat 5-hmC Antibody (C.15220001) - BSA Free (NBP2-59178) is a monoclonal antibody validated for use in ELISA. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rat
Species	Human, Mouse, Drosophila
Immunogen	The exact immunogen is propietary information.
Product Application Details	
Applications	Dot Blot, ELISA, Methylated DNA Immunoprecipitation



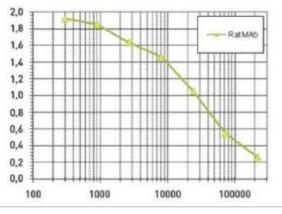
ELISA 1:1000, Dot Blot 1:500, Methylated DNA Immunoprecipitation 2.5 ug/IP

#### **Images**

Methylated DNA Immunoprecipitation: 5-hmC Antibody (C.15220001) [NBP2-59178] - Hydroxymethylated DNA IP (hMeDIP) assays were performed using the antibody against 5-hydroxymethylcytosine, 5-hmC, 5-mC and cytosine DNA standards and Rat IgG. DNA fragments are 300 -500 bp. 1 ug of mouse ES cells DNA was spiked with 0.025 ng of each DNA standard. The IP'd material has been analyzed by qPCR using the primer pairs specific to the control sequences. The obtained results are as follows: - hMeDIP on unmethylated control, with Rat IgG as negative control (0.06%, almost no recovery), with 5-hmC antibody (0.61%, almost no recovery) - hMeDIP on methylated control, with Rat IgG as negative control (0.03%, almost no recovery), with 5-hmC antibody (0.62%, almost no recovery) - hMeDIP on hydroxymethylated control, with Rat IgG as negative control (0.04%, almost no recovery), with 5-hmC (97.60% recovery, almost full recovery).



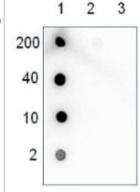
ELISA: 5-hmC Antibody (C.15220001) [NBP2-59178] - To determine the titer, an ELISA was performed using a serial dilution of the antibody directed against 5-hmC in antigen coated wells. The antigen used was a 5-hmC base coupled to KHL. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:25,000.



Dot Blot: 5-hmC Antibody (C.15220001) [NBP2-59178] - (A): Approximately 200 ng, equivalent 10 pmol of C-bases, of the hmC (1), mC (2) and C (3) PCR controls were spotted on a membrane (Amersham Hybond-N+). The membrane was incubated with 5-hmC Antibody (C.15220001) followed by an HRP conjugated anti-rat secondary antibody. The membrane was exposed for 30 seconds.



Dot Blot: 5-hmC Antibody (C.15220001) [NBP2-59178] - 200 to 2 ng (equivalent of 10 to 0.1 pmol of C-base) of the hmC (1), mC (2) and C (3) PCR controls were spotted on a membrane (Amersham Hybond-N+). The membrane was incubated with 4 ug/ml (dilution 1:500) of the 5-hmC Antibody (C.15220001), followed by an HRP conjugated anti-rat secondary antibody. The membrane was exposed for 30 seconds.





## 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 NBP2-59178**

HAF005 Goat anti-Rat IgG Secondary Antibody [HRP]

F0105B Goat anti-Rat IgG Secondary Antibody [Phycoerythrin]

NBP2-21947-0.1mg Rat IgG2a Isotype Control (2A3)

#### 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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