

Product Datasheet

5-Carboxylcytosine Antibody - BSA Free NBP2-59148

Unit Size: 100 ug

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

www.novusbio.com



technical@novusbio.com

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-59148

Updated 9/9/2025 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP2-59148



NBP2-59148**5-Carboxylcytosine Antibody - 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	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS, 30% Glycerol

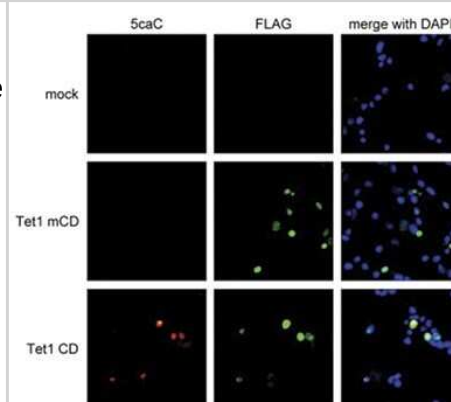
Product Description	
Description	Novus Biologicals Rabbit 5-Carboxylcytosine Antibody - BSA Free (NBP2-59148) is a polyclonal antibody validated for use in ICC/IF and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Species	Human, Mouse, Non-species specific
Immunogen	The exact immunogen is proprietary information.

Product Application Details	
Applications	Dot Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunofluorescence
Recommended Dilutions	Immunocytochemistry/ Immunofluorescence 1:500, Immunoprecipitation 4 ug/IP, Dot Blot 1:500 - 1:1000, Immunofluorescence 1:500

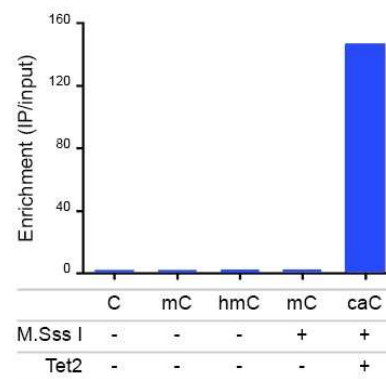


Images

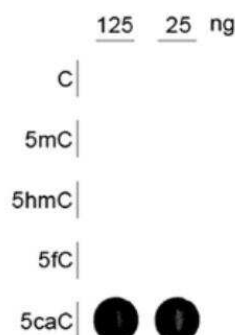
Immunocytochemistry/Immunofluorescence: 5-Carboxylcytosine Antibody [NBP2-59148] - 293T cells were transfected with either the mouse FLAG-tagged wild-type Tet1 (Tet1 CD) or the catalytically inactive FLAG-tagged C-terminal domain of Tet1 (Tet1 mCD) and stained with the antibody against 5-caC, diluted 1:500, and with an anti-FLAG antibody, followed by DAPI counterstaining.



Immunoprecipitation: 5-Carboxylcytosine Antibody [NBP2-59148] - Immunoprecipitation was performed with the antibody against 5-caC on 2 ug of J1 ES genomic DNA, spiked with 1 pg of a control DNA fragment (approximately 700 bp from the RFP (Ring finger protein) gene) containing different cytosine modifications. The mC and hmC control DNA was generated by PCR with the corresponding nucleotide. The caC control fragment was obtained by in vitro methylation using M.SssI methyltransferase followed by oxidation with purified Tet2. The IP'd DNA was subsequently analysed by qPCR using primers specific for the control DNA fragments and for GAPDH, used as a negative control. Figure shows the enrichment calculated as the ratio of the recovery of the control DNA versus the recovery of the GAPDH negative control.



Dot Blot: 5-Carboxylcytosine Antibody [NBP2-59148] - Analysis was performed using synthetic oligonucleotides containing different modified C-bases (indicated in red). 125 and 25 ng of the respective oligo's were bound to a Streptavidin-coated multi-well plate. The antibody was used at a dilution of 1:1,000. The binding of antibody to the DNA was measured by ECL chemiluminescence. Figure shows a high specificity of the antibody for the carboxylated cytosine.





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 NBP2-59148

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP3-23468	5-Carboxylcytosine Antibody Pair [Biotin]

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

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-59148

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

