

# Product Datasheet

## 5-Carboxylcytosine Antibody - BSA Free NBP2-59148

Unit Size: 100 ug

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

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**NBP2-59148****5-Carboxylcytosine Antibody - BSA Free****Product Information**

<b>Unit Size</b>	100 ug
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS, 30% Glycerol

**Product Description**

<b>Description</b>	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.
<b>Host</b>	Rabbit
<b>Species</b>	Human, Mouse, Non-species specific
<b>Immunogen</b>	The exact immunogen is proprietary information.

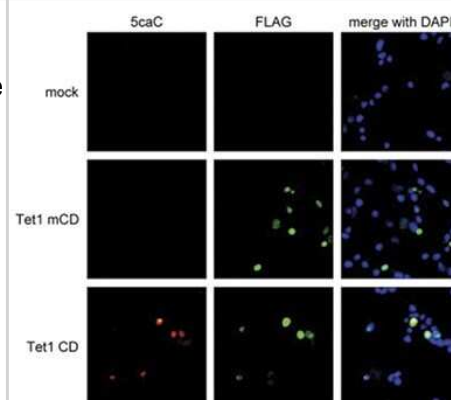
**Product Application Details**

<b>Applications</b>	Dot Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunofluorescence
<b>Recommended Dilutions</b>	Immunocytochemistry/ Immunofluorescence 1:500, Immunoprecipitation 4 ug/IP, Dot Blot 1:500 - 1:1000, Immunofluorescence 1:500

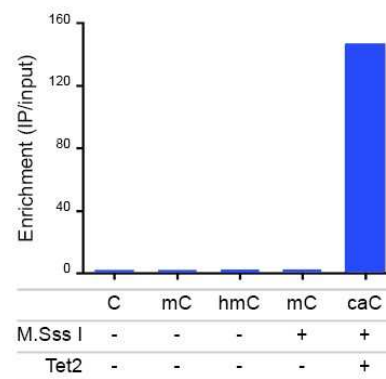


## Images

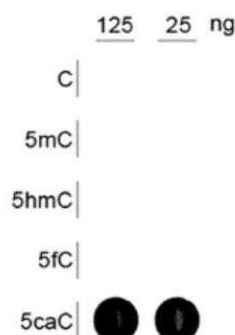
**Immunocytochemistry/Immunofluorescence: 5-Carboxylcytosine Antibody [NBP2-59148]** - 293T cells were transfected with either the mouse FLAG-tagged wild-type Tet1 (Tet1 CD) or the catalytically inactive FLAG-tagged C-terminal domain of Tet1 (Tet1 mCD) and stained with the antibody against 5-caC, diluted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

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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
NBP3-23468	5-Carboxylcytosine Antibody Pair [Biotin]

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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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