

# Product Datasheet

## HIST1H3A [Monomethyl Lys4] Antibody NBP2-41657

Unit Size: 25 ug

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

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**NBP2-41657****HIST1H3A [Monomethyl Lys4] Antibody**

<b>Product Information</b>	
<b>Unit Size</b>	25 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% Proclin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	PBS

<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	8350
<b>Gene Symbol</b>	HIST1H3A
<b>Species</b>	Human
<b>Immunogen</b>	Polyclonal antibody raised in rabbit against histone H3 containing the monomethylated lysine 4 (H3K4me1), using a KLH-conjugated synthetic peptide.

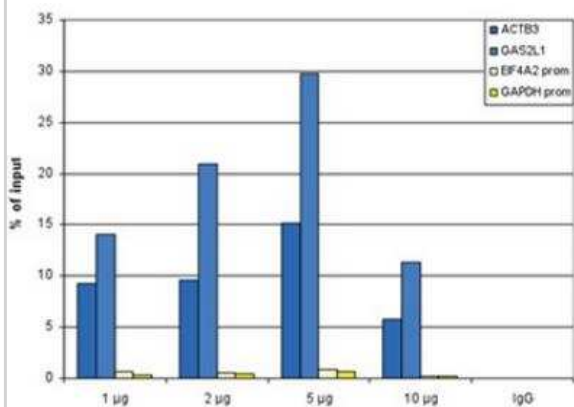
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Chromatin Immunoprecipitation, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	Western Blot, Chromatin Immunoprecipitation, ELISA, Immunocytochemistry/ Immunofluorescence, Dot Blot, Chromatin Immunoprecipitation (ChIP)

## Images

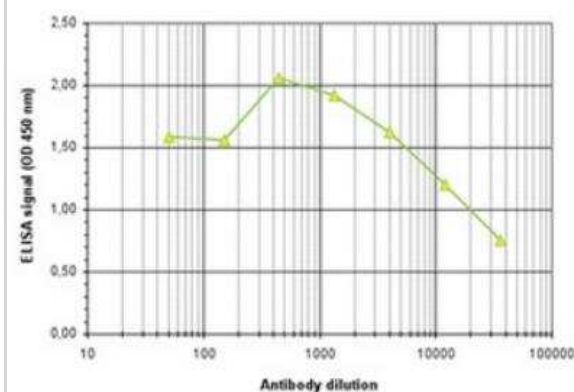
Western Blot: HIST1H3A [Monomethyl Lys4] Antibody [NBP2-41657] - Analysis of whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively).



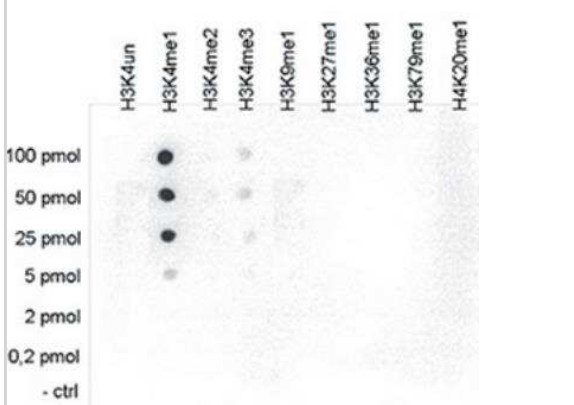
Chromatin Immunoprecipitation: HIST1H3A [Monomethyl Lys4] Antibody [NBP2-41657] - ChIP assays were performed using 1 million HeLaS3 cells and the antibody and optimized PCR primer sets for qPCR. A titration of the antibody consisting of 1, 2, 5, and 10 ul per ChIP experiment was analysed. IgG (2 ug/IP) was used as negative control. The Fig shows the recovery, expressed as a % of input (the relative amount of IP DNA compared to input DNA after qPCR analysis).



ELISA: HIST1H3A [Monomethyl Lys4] Antibody [NBP2-41657] - The antigen used was a peptide containing the histone modification of interest. By plotting the absorbance against the antibody dilution the titer of the antibody was estimated to be 1:20,000.



Dot Blot: HIST1H3A [Monomethyl Lys4] Antibody [NBP2-41657] - To test the cross reactivity of the antibody with peptides containing other modifications of histone H4 and H3. 100 to 0.2 pmol of the peptide containing the respective histone modification were spotted on a membrane. The Fig shows a high specificity of the antibody for the modification of interest.





### **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

### **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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