

# Product Datasheet

## Histone H4 [ac Lys5, ac Lys8, ac Lys12] Antibody - BSA Free NBP2-59252

Unit Size: 50 ug

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

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**NBP2-59252**

Histone H4 [ac Lys5, ac Lys8, ac Lys12] Antibody - BSA Free

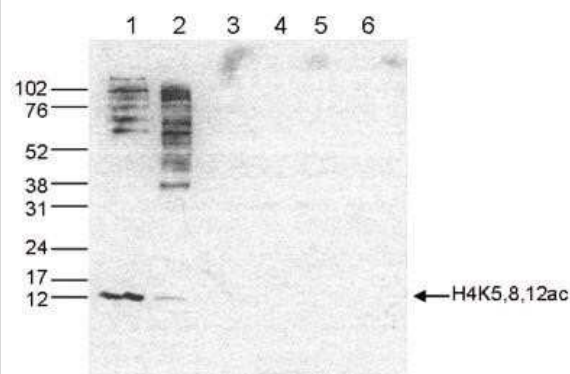
Product Information	
<b>Unit Size</b>	50 ug
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide and 0.05% ProClin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Peptide affinity purified
<b>Buffer</b>	PBS

Product Description	
<b>Description</b>	Novus Biologicals Rabbit Histone H4 [ac Lys5, ac Lys8, ac Lys12] Antibody - BSA Free (NBP2-59252) is a polyclonal antibody validated for use in WB, ELISA, ICC/IF and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	121504
<b>Gene Symbol</b>	H4C16
<b>Species</b>	Human, Mouse
<b>Immunogen</b>	The exact immunogen is proprietary information.

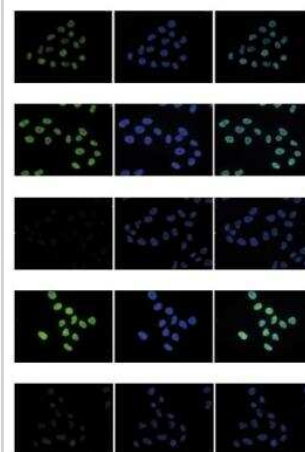
Product Application Details	
<b>Applications</b>	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
<b>Recommended Dilutions</b>	Western Blot 1:1000, ELISA 1:1000, Immunocytochemistry/ Immunofluorescence 1:500, Dot Blot 1:20000, Chromatin Immunoprecipitation (ChIP) 0.5-1 ug/IP, Chromatin Immunoprecipitation Sequencing

**Images**

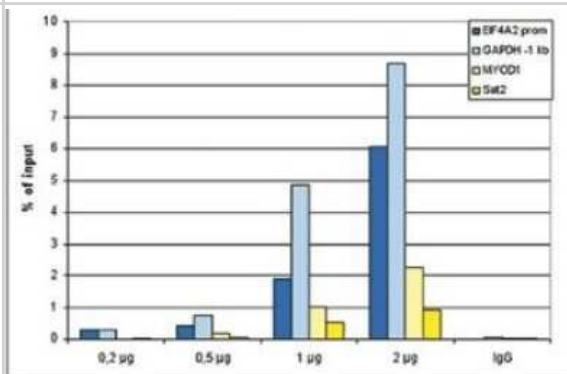
Western Blot: Histone H4 [ac Lys5, ac Lys8, ac Lys12] Antibody [NBP2-59252] - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H4K5,8,12ac. The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. The position of the protein of interest is indicated on the right, the marker (kDa) is shown on the left.



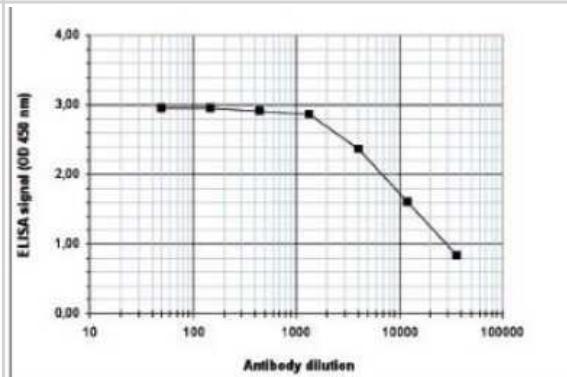
**Immunocytochemistry/Immunofluorescence: Histone H4 [ac Lys5, ac Lys8, ac Lys12] Antibody [NBP2-59252]** - HeLa cells were stained with Histone H4 [ac Lys5, ac Lys8, ac Lys12] Antibody and DAPI. Cells were fixed with 4% formaldehyde for 10' and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. (Top): cells were immunofluorescently labeled with the Histone H4 [ac Lys5, ac Lys8, ac Lys12] Antibody (left) diluted 1:500 in blocking solution followed by an anti-rabbit antibody conjugated to Alexa488. The middle panel shows staining of the nuclei with DAPI. A merge of the two stainings is shown on the right. Subsequent images show staining of the cells with the Histone H4 [ac Lys5, ac Lys8, ac Lys12] Antibody after incubation of the antibody with 10 ng/ul of the following blocking peptides: H4K5,8,12 unmodified, H4K5,8,12ac, H2A.ZK5,7,11ac and H4K5,8,12,16ac, respectively.



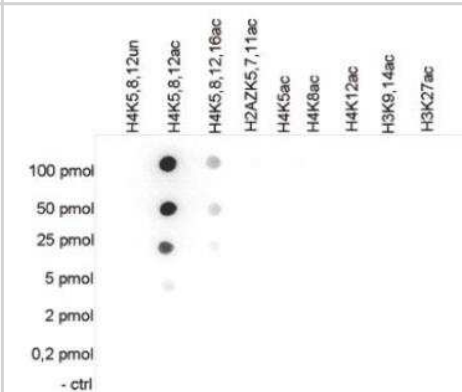
**Chromatin Immunoprecipitation: Histone H4 [ac Lys5, ac Lys8, ac Lys12] Antibody [NBP2-59252]** - ChIP assays were performed using human K562 cells, the antibody against H4K5,8,12ac and optimized PCR primer sets for qPCR. ChIP was performed with a ChIP- seq kit on sheared chromatin from 100,000 cells. A titration of the antibody consisting of 0.2, 0.5, 1 and 2 ug per ChIP experiment was analysed. IgG (1 ug/IP) was used as negative IP control. QPCR was performed with primers for promoter of the active gene EIF4A2 and for a region 1 kb upstream of the GAPDH gene, used as positive controls, and for the inactive MYOD1 gene and the Sat2 satellite repeat region used as negative controls. Figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



**ELISA: Histone H4 [ac Lys5, ac Lys8, ac Lys12] Antibody [NBP2-59252]** - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H4K5,8,12ac in antigen coated wells. 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 1:14,500.



**Dot Blot: Histone H4 [ac Lys5, ac Lys8, ac Lys12] Antibody [NBP2-59252]** - To test the cross reactivity of Histone H4 [ac Lys5, ac Lys8, ac Lys12] Antibody, a Dot Blot analysis was performed with peptides containing other histone modifications and the unmodified H4. One hundred to 0.2 pmol of the respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:20,000. Figure 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

### **Products Related to NBP2-59252**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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