

Product Datasheet

Histone H4 [ac Lys13, ac Lys5, ac Lys8] Antibody - BSA Free NBP2-59253

Unit Size: 50 ug

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

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NBP2-59253

Histone H4 [ac Lys13, ac Lys5, ac Lys8] Antibody - BSA Free

Product Information	
Unit Size	50 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 and 0.05% ProClin 300
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rabbit Histone H4 [ac Lys13, ac Lys5, ac Lys8] Antibody - BSA Free (NBP2-59253) is a polyclonal antibody validated for use in ELISA, ICC/IF and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	121504
Gene Symbol	H4C16
Species	Human, Mouse
Immunogen	The exact immunogen is proprietary information.

Product Application Details	
Applications	Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing, Immunofluorescence
Recommended Dilutions	ELISA 1:1000, Immunocytochemistry/ Immunofluorescence 1:500, Dot Blot 1:20000, Immunofluorescence 1:500, Chromatin Immunoprecipitation (ChIP) 2 ug/IP, Chromatin Immunoprecipitation Sequencing

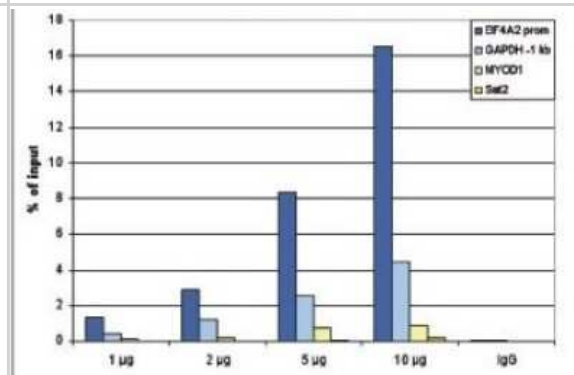


Images

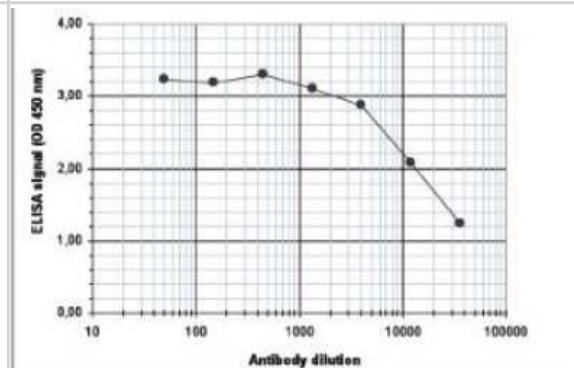
Immunocytochemistry/Immunofluorescence: Histone H4 [ac Lys13, ac Lys5, ac Lys8] Antibody [NBP2-59253] - Mouse NIH3T3 cells were stained with the antibody against H4K5,8,12,16ac and with DAPI. Cells were fixed with 4% formaldehyde for 10 minutes and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H4K5,8,12,16ac 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.



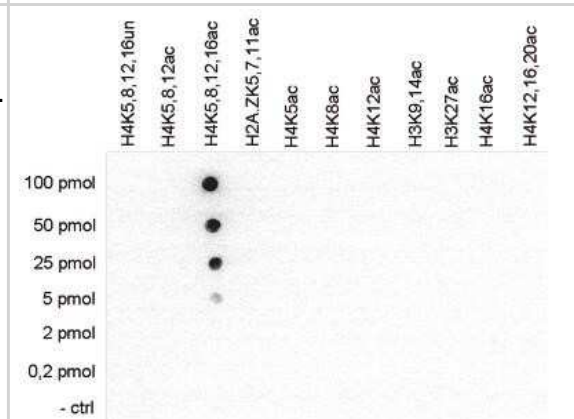
Chromatin Immunoprecipitation: Histone H4 [ac Lys13, ac Lys5, ac Lys8] Antibody [NBP2-59253] - ChIP assays were performed using human HeLa cells, the antibody against H4K5,8,12,16ac and optimized PCR primer sets for qPCR. ChIP was performed with a ChIP-seq kit on sheared chromatin from 1 million cells. A titration of the antibody consisting of 1, 2, 5 and 10 ug per ChIP experiment was analysed. IgG (2 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 Lys13, ac Lys5, ac Lys8] Antibody [NBP2-59253] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H4K5,8,12,16ac 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 1:21,200.



Dot Blot: Histone H4 [ac Lys13, ac Lys5, ac Lys8] Antibody [NBP2-59253] - 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. The figure shows a high specificity of the antibody for the modification of interest.





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Products Related to NBP2-59253

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB21-2089PEP	Histone H4 [Dimethyl Lys20] Antibody Blocking Peptide

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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