Product Datasheet

Histone H4 [ac Lys12] Antibody - BSA Free
NBP2-59266

Unit Size: 50 ug

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

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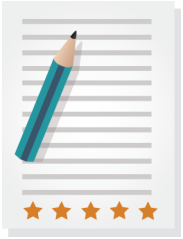


NBP2-59266

Histone H4 [ac Lys12] 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

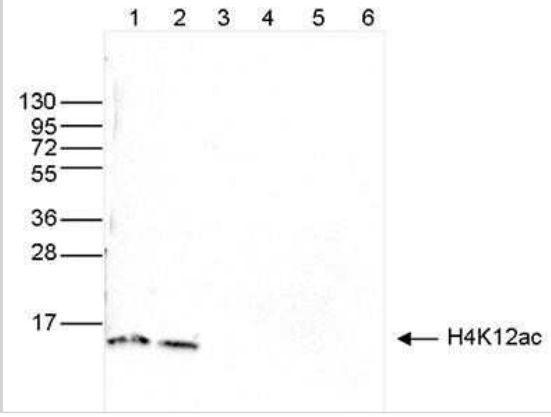
Description	Novus Biologicals Rabbit Histone H4 [ac Lys12] Antibody - BSA Free (NBP2-59266) is a polyclonal antibody validated for use in WB, ELISA, ICC/IF and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	121504
Gene Symbol	H4C16
Species	Human, Mouse
Immunogen	The exact immunogen is proprietary information.

Product Application Details

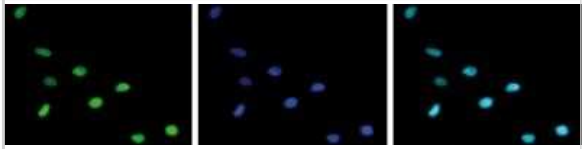
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:500, ELISA 1:1000, Immunocytochemistry/ Immunofluorescence 1:200, Dot Blot 1:1000, Chromatin Immunoprecipitation (ChIP) 0.5-1 ug, Chromatin Immunoprecipitation Sequencing

Images

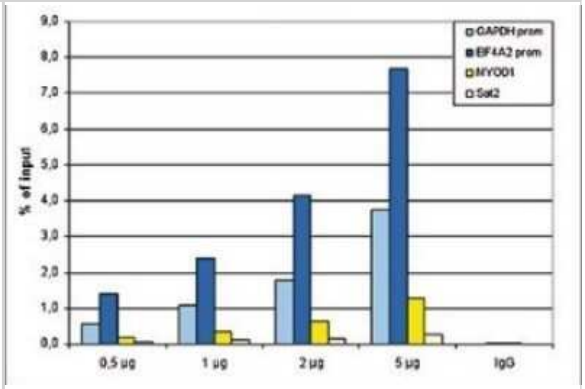
Western Blot: Histone H4 [ac Lys12] Antibody [NBP2-59266] - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H4K12ac. The antibody was diluted 1:500 in TBS-Tween containing 5% skimmed milk. The position of the protein of interest is indicated on the right, the marker (in kDa) is shown on the left.



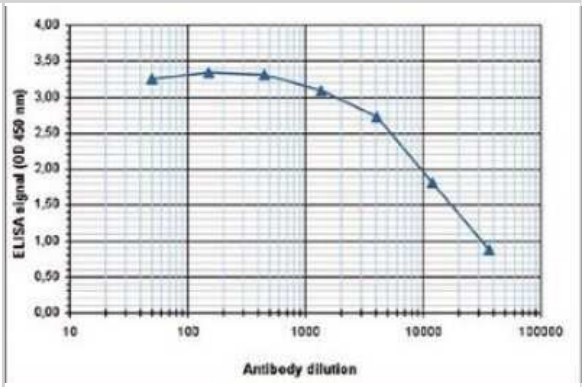
Immunocytochemistry/Immunofluorescence: Histone H4 [ac Lys12] Antibody [NBP2-59266] - HeLa cells were stained with the antibody against H4K12ac and with DAPI. Cells were fixed with 4% formaldehyde for 10 minutes and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H4K12ac antibody (left) diluted 1:200 in blocking solution followed by an anti-rabbit antibody conjugated to Alexa Fluor 488. The middle panel shows staining of the nuclei with DAPI. A merge of the two stainings is shown on the right.



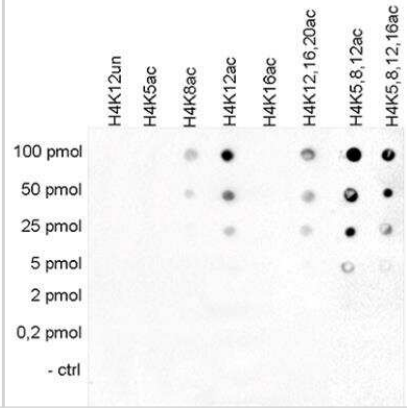
Chromatin Immunoprecipitation: Histone H4 [ac Lys12] Antibody [NBP2-59266] - ChIP assays were performed using human HeLa cells, the antibody against H4K12ac and optimized PCR primer sets for qPCR. ChIP was performed with the ChIP-seq kit on sheared chromatin from 1,000,000 cells. A titration of the antibody consisting of 0.5, 1, 2 and 5 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 GAPDH and EIF4A2 genes, 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 Lys12] Antibody [NBP2-59266] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H4K12ac 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 1:14,300.



Dot Blot: Histone H4 [ac Lys12] Antibody [NBP2-59266] - To test the cross reactivity of the antibody against H4K12ac, 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 1:1,000. Figure shows the antibody is specific for the K12 acetylation with some slight cross reaction with K8ac.



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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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