

Product Datasheet

Histone H3 [ac Lys4] Antibody - BSA Free NBP2-59279

Unit Size: 50 ug

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

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NBP2-59279

Histone H3 [ac Lys4] 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
Target Molecular Weight	15 kDa

Product Description

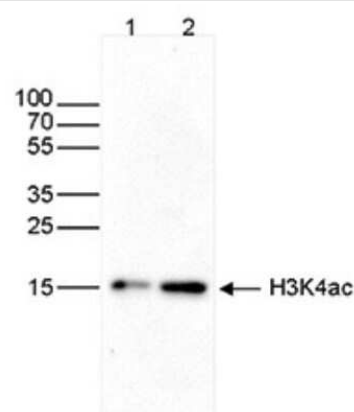
Description	Novus Biologicals Rabbit Histone H3 [ac Lys4] Antibody - BSA Free (NBP2-59279) is a polyclonal antibody validated for use in WB, ELISA, ICC/IF and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human
Immunogen	The exact sequence of the immunogen to this Histone H3 [ac Lys4] antibody is proprietary.

Product Application Details

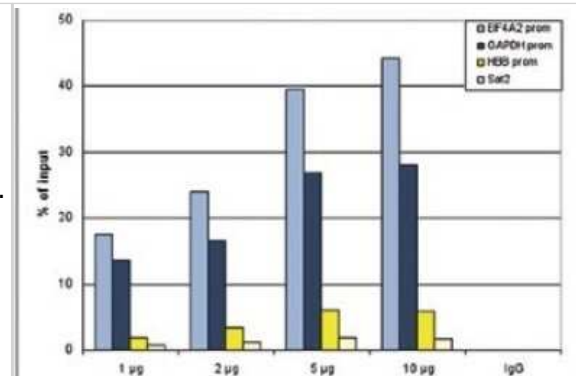
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:1000, ELISA 1:1000-1:10000, Immunocytochemistry/ Immunofluorescence, Dot Blot 1:5000, Chromatin Immunoprecipitation (ChIP) 2 ug/IP, Chromatin Immunoprecipitation Sequencing

Images

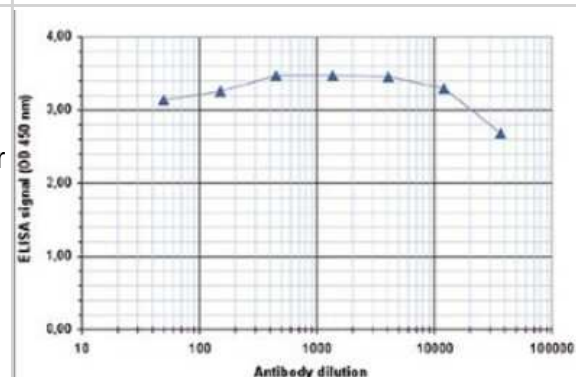
Western Blot: Histone H3 [ac Lys4] Antibody [NBP2-59279] - Whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells were analysed by Western blot using the antibody against H3K4ac, diluted 1:1,000 in TBSTween containing 5% BSA. Observed molecular weight is ~15 kDa.



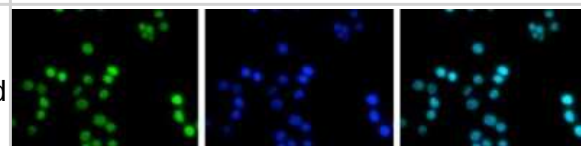
Chromatin Immunoprecipitation: Histone H3 [ac Lys4] Antibody [NBP2-59279] - ChIP assays were performed using human HeLa cells, the antibody against H3K4ac and optimized PCR primer sets for qPCR. ChIP was performed using sheared chromatin from 4 million cells. A titration of the antibody consisting of 1, 2, 5 and 10 μ g per ChIP experiment was analysed. IgG (1 μ g/IP) was used as negative IP control. QPCR was performed with primers for the GAPDH and EIF4A2 promoters, used as positive controls, and for the HBB promoter and the Sat2 satellite repeat, 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).



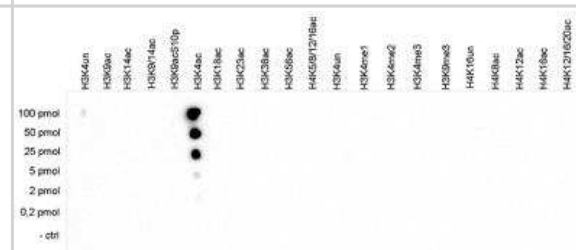
ELISA: Histone H3 [ac Lys4] Antibody [NBP2-59279] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H3K4ac in antigen-coated wells. The antigen used was a peptide containing the histone modification of interest. By plotting the absorbance against the antibody dilution, the titer of the purified antibody was estimated to be 1:197,500.



Immunofluorescence: Histone H3 [ac Lys4] Antibody [NBP2-59279] - HeLa cells were stained with the antibody against H3K4ac 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 H3K4ac 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.



Dot Blot: Histone H3 [ac Lys4] Antibody [NBP2-59279] - A Dot Blot analysis was performed to test the cross reactivity of the antibody against H3K4ac with peptides containing other histone H3 and H4 modifications and the unmodified H3K4 sequence. One hundred to 0.2 pmol of the respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:5,000. Figure shows a high specificity of the antibody for the modification of interest.





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Products Related to NBP2-59279

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB21-1252PEP	Histone H3 [Dimethyl Lys36] 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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