

Product Datasheet

Histone H3 [ac Lys9] Antibody - BSA Free NBP2-59180

Unit Size: 50 ug

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

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NBP2-59180

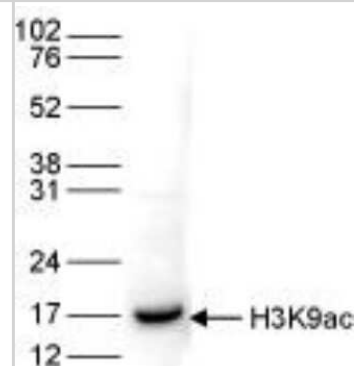
Histone H3 [ac Lys9] Antibody - BSA Free

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 Lys9] Antibody - BSA Free (NBP2-59180) 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, Mouse, P. falciparum, Plant, Zebrafish
Reactivity Notes	Poplar
Immunogen	The exact sequence of the immunogen to this Histone H3 [ac Lys9] antibody is proprietary.
Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing, Immunocytochemistry
Recommended Dilutions	Western Blot 1:1000, ELISA 1:1000, Immunocytochemistry/ Immunofluorescence, Dot Blot 1:20000, Chromatin Immunoprecipitation (ChIP) 1-2 ug/IP, Immunocytochemistry 1:500, Chromatin Immunoprecipitation Sequencing

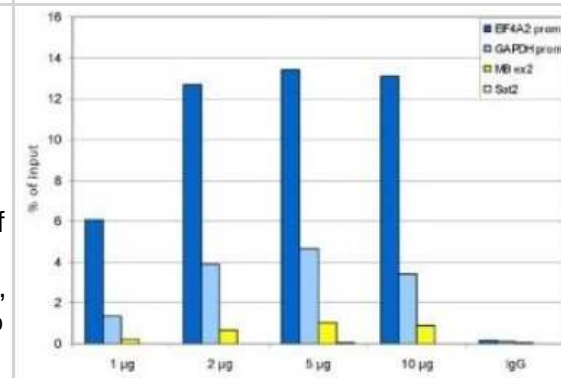


Images

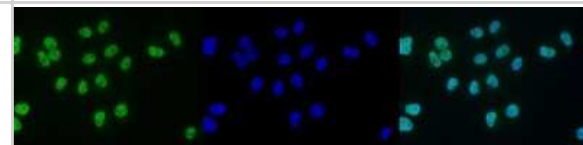
Western Blot: Histone H3 [ac Lys9] Antibody [NBP2-59180] - Histone extracts of HeLa cells (15 ug) were analysed by Western blot using the antibody against H3K9ac diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~17 kDa.



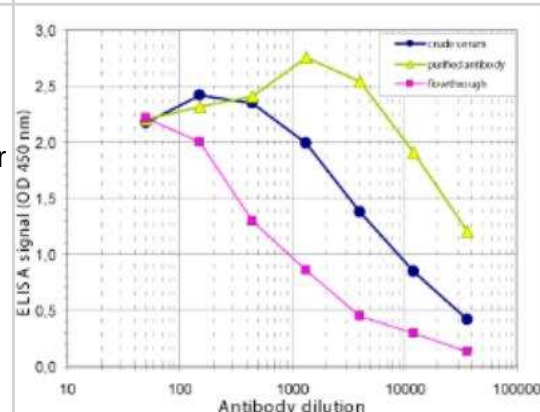
Chromatin Immunoprecipitation: Histone H3 [ac Lys9] Antibody [NBP2-59180] - ChIP assays were performed using human HeLa cells, the antibody against H3K9ac and optimized PCR primer pairs for qPCR. ChIP was performed using sheared chromatin from 1 million cells. A titration consisting of 1, 2, 5 and 10 ug of antibody per ChIP experiment was analyzed. IgG (2 ug/IP) was used as a negative IP control. Quantitative PCR was performed with primers specific for the promoter of the active genes GAPDH and EIF4A2, used as positive controls, and for exon 2 of the inactive myoglobin (MB) gene 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). These results are in accordance with the observation that acetylation of K9 at histone H3 is associated with the promoters of active genes.



Immunofluorescence: Histone H3 [ac Lys9] Antibody [NBP2-59180] - HeLa cells were stained with the antibody against H3K9ac and with DAPI. Cells were mixed with 4% formaldehyde for 10 minutes and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labelled with the H3K9ac antibody (left) diluted 1:500 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.



ELISA: Histone H3 [ac Lys9] Antibody [NBP2-59180] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H3K9ac 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 1:31,700.





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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB21-1002PEP	Histone H3 [Asym-dimethyl Arg2] 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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