

Product Datasheet

Histone H3 [Trimethyl Lys4] Antibody - BSA Free NBP2-54610

Unit Size: 50 ug

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NBP2-54610

Histone H3 [Trimethyl Lys4] Antibody - BSA Free

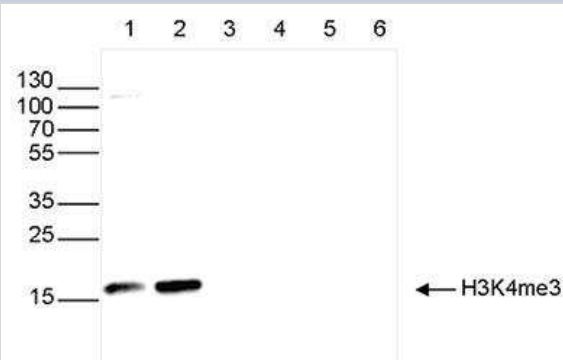
Product Information	
Unit Size	50 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide and 0.05% ProClin 300
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	15 kDa

Product Description	
Description	Novus Biologicals Rabbit Histone H3 [Trimethyl Lys4] Antibody - BSA Free (NBP2-54610) is a polyclonal antibody validated for use in IHC, 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, A. thaliana, Fish, Plant, Zebrafish
Reactivity Notes	Arabidopsis, rice, tomato, maize, poplar. Trout
Immunogen	This Histone H3 [Trimethyl Lys4] antibody was developed against H3K4Me3

Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Protein Array, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:1000, ELISA 1:1000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:200, Dot Blot 1:10000, Protein Array 1:10000, Chromatin Immunoprecipitation (ChIP) 1 ug/IP, Chromatin Immunoprecipitation Sequencing

Images

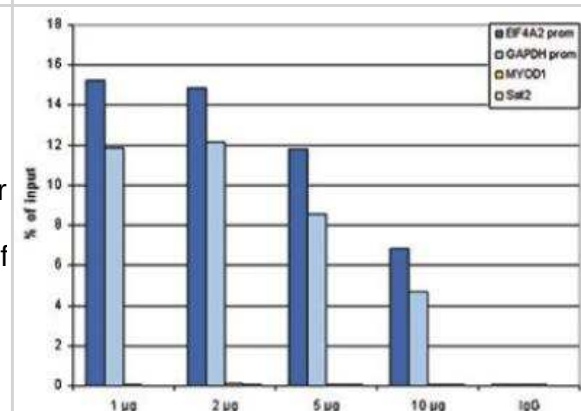
Western Blot: Histone H3 [Trimethyl Lys4] Antibody [NBP2-54610] - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H3K4me3. The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~16 kDa.



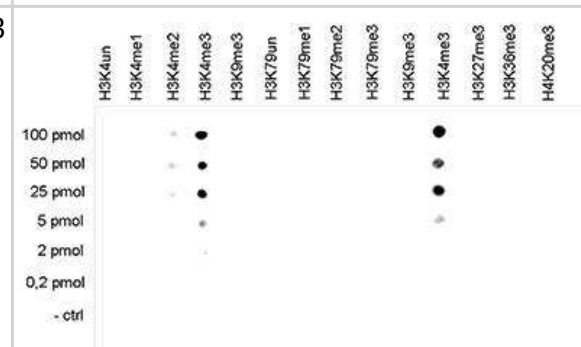
Immunohistochemistry: Histone H3 [Trimethyl Lys4] Antibody [NBP2-54610] - Histone 3 [Trimethyl Lys4] Antibody [NBP2-54610] - HeLa cells were stained with the antibody against H3K4me3 and with DAPI. Cells were fixed with 4% formaldehyde for 10 minutes and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H3K4me3 antibody (left) diluted 1:200 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.



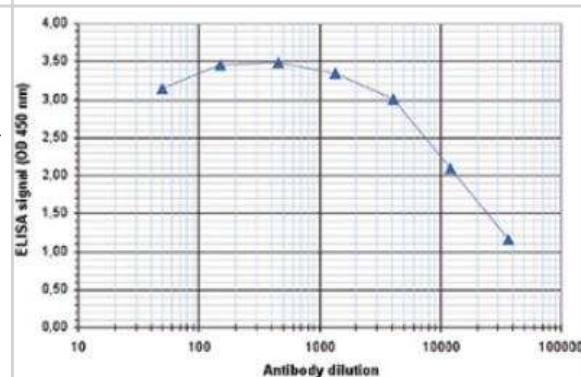
Chromatin Immunoprecipitation: Histone H3 [Trimethyl Lys4] Antibody [NBP2-54610] - Histone 3 [Trimethyl Lys4] [Trimethyl Lys4] Antibody [NBP2-54610] - ChIP assays were performed using human HeLa cells, the antibody against H3K4me3, and optimized PCR primer pairs for qPCR. Figure shows the recovery, expressed as a percent of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis). These results are in accordance with the observation that trimethylation of K4 at histone H3 is associated with the promoters of active genes.



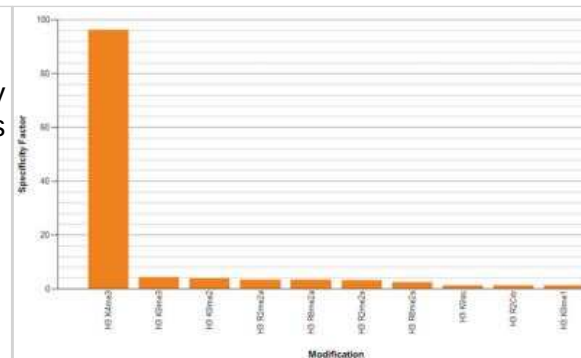
Dot Blot: Histone H3 [Trimethyl Lys4] Antibody [NBP2-54610] - Histone 3 [Trimethyl Lys4] Antibody [NBP2-54610] - One hundred to 0.2 pmol of the respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:10,000. Figure shows a high specificity of the antibody for the modification of interest.



ELISA: Histone H3 [Trimethyl Lys4] Antibody [NBP2-54610] - Histone 3 [Trimethyl Lys4] [Trimethyl Lys4] Antibody [NBP2-54610] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody against H3K4me3. 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 1:18,350.



Protein Array: Histone H3 [Trimethyl Lys4] Antibody [NBP2-54610] -
 Histone 3 [Trimethyl Lys4] [Trimethyl Lys4] Antibody [NBP2-54610] -
 The specificity of the antibody was further demonstrated by peptide array
 analyses on an array containing 384 peptides with different combinations
 of modifications from histone H3, H4, H2A and H2B. The antibody was
 used at a dilution of 1:10,000. Figure shows a high specificity for the
 peptides containing the H3K4me3 modification.





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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB21-1101PEP	Histone H3 [p Thr11] Antibody Blocking Peptide

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