Product Datasheet

Histone H3 [Monomethyl Lys4] Antibody - BSA Free NBP2-54613

Unit Size: 50 ug

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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NBP2-54613

Histone H3 [Monomethyl Lys4] Antibody - BSA Free

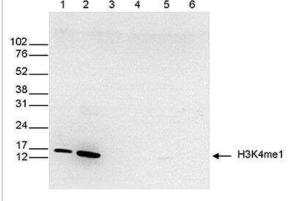
Unit Size Concentration Please see the vial label for concentration. If unlisted please contact technical services. Storage Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles. Clonality Polyclonal Preservative 0.05% Sodium Azide and 0.05% ProClin 300 Isotype IgG Purity Affinity purified PBS		·
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Isotype IgG Purity Affinity purified Buffer PBS	Clonality	Polyclonal
Purity Affinity purified Buffer PBS	Preservative	0.05% Sodium Azide and 0.05% ProClin 300
Buffer PBS	Isotype	IgG
	Purity	Affinity purified
Target Molecular Weight 15 kDa	Buffer	PBS
	Target Molecular Weight	15 kDa

Product Description	
Description	Novus Biologicals Rabbit Histone H3 [Monomethyl Lys4] Antibody - BSA Free (NBP2-54613) 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
Immunogen	This Histone H3 [Trimethyl Lys4] antibody was developed against H3K4Me3
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Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Protein Array, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:500, ELISA 1:400, Immunocytochemistry/ Immunofluorescence 1:200, Dot Blot 1:5000, Protein Array 1:2000, Chromatin Immunoprecipitation (ChIP) 0.5-1 ug/IP, Chromatin Immunoprecipitation Sequencing

Images

Western Blot: Histone H3 [Monomethyl Lys4] Antibody [NBP2-54613] - Histone 3 [Monomethyl Lys4] Antibody [NBP2-54613] - 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 H3K4me1. The antibody was diluted 1:500 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~15 kDa.

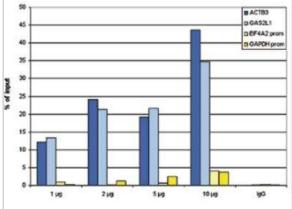




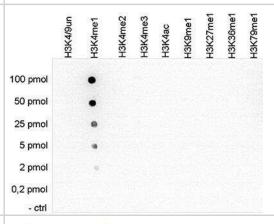
Immunocytochemistry/Immunofluorescence: Histone H3 [Monomethyl Lys4] Antibody [NBP2-54613] - Histone 3 [Monomethyl Lys4] Antibody [NBP2-54613] - HeLa cells were stained with the antibody against H3K4me1 and with DAPI. Cells were fixed with 4% formaldehyde for 10' and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H3K4me1 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.



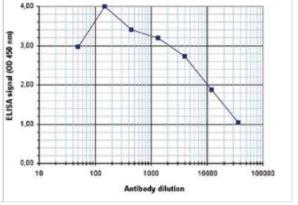
Chromatin Immunoprecipitation: Histone H3 [Monomethyl Lys4] Antibody [NBP2-54613] - Histone 3 [Monomethyl Lys4] Antibody [NBP2-54613] - ChIP assays were performed using human K562 cells, the antibody against H3K4me1 and optimized PCR primer pairs for qPCR. ChIP was performed using sheared chromatin from 100,000 cells. A titration consisting of 1, 2, 5 and 10 ug of antibody per ChIP experiment was analyzed. IgG (1 ug/IP) was used as a negative IP control. Quantitative PCR was performed with primers for a region surrounding the ACTB and GAS2L1 gene, respectively, used as positive controls, and for the promoters of the GAPDH and EIF4A2 genes, 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).



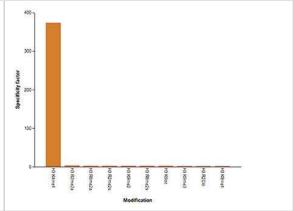
Dot Blot: Histone H3 [Monomethyl Lys4] Antibody [NBP2-54613] - Histone 3 [Monomethyl Lys4] Antibody [NBP2-54613] - To test the cross reactivity of the antibody against H3K4me1, a Dot Blot analysis was performed with peptides containing other histone modifications and the unmodified H3K4. One hundred 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.



ELISA: Histone H3 [Monomethyl Lys4] Antibody [NBP2-54613] - Histone 3 [Monomethyl Lys4] Antibody [NBP2-54613] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody against H3K4me1. 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 1:10,300.



Protein Array: Histone H3 [Monomethyl Lys4] Antibody [NBP2-54613] - Histone 3 [Monomethyl Lys4] Antibody [NBP2-54613] - 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 1:2,000. Figure shows the specificity factor, calculated as the ratio of the average intensity of all spots containing the mark, divided by the average intensity of all spots not containing the mark.





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Products Related to NBP2-54613

HAF008 Goat anti-Rabbit IgG Secondary Antibody [HRP]

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

NBP2-24891 Rabbit IgG Isotype Control

NB21-1162PEP Histone H3 [Dimethyl Lys23] 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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