

Product Datasheet

Histone H3 [Methyl Lys4] Antibody - BSA Free NBP2-59188

Unit Size: 50 ug

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

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Updated 9/9/2025 v.20.1

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NBP2-59188

Histone H3 [Methyl 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

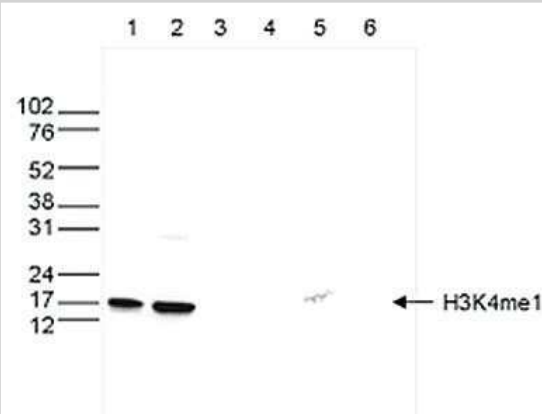
Description	Novus Biologicals Rabbit Histone H3 [Methyl Lys4] Antibody - BSA Free (NBP2-59188) is a polyclonal antibody validated for use in WB, ELISA, ICC/IF and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human, Mouse
Immunogen	The exact sequence of the immunogen to this Histone H3 [Methyl 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 1:500, ELISA 1500, Immunocytochemistry/ Immunofluorescence, Dot Blot 1:10000, Chromatin Immunoprecipitation (ChIP) 1-2 ug, Chromatin Immunoprecipitation Sequencing

Images

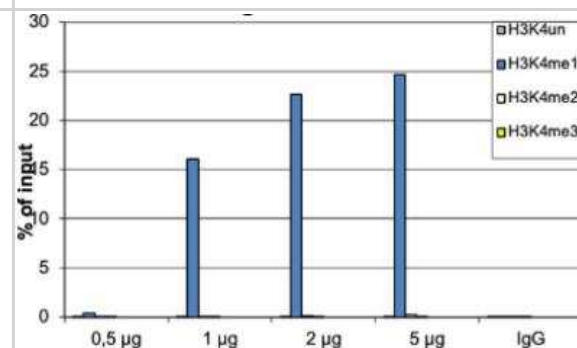
Western Blot: Histone H3 [Methyl Lys4] Antibody [NBP2-59188] - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H3K4me1. The antibody was diluted 1:500 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~16 kDa.



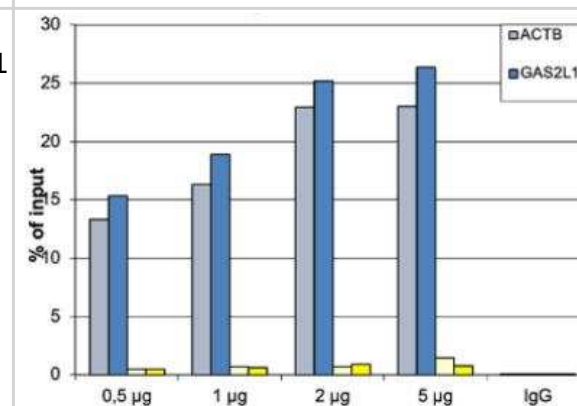
Immunocytochemistry/Immunofluorescence: Histone H3 [Methyl Lys4] Antibody [NBP2-59188] - HeLa cells were stained with the antibody against H3K4me1 and with DAPI. Cells were fixed with 4% formaldehyde for 10' and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H3K4me1 antibody (left) diluted 1:500 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.



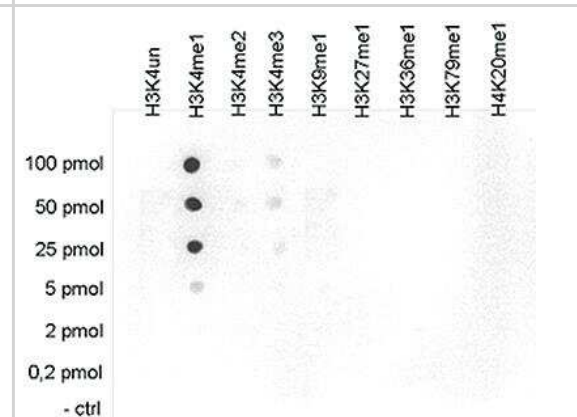
Chromatin Immunoprecipitation: Histone H3 [Methyl Lys4] Antibody [NBP2-59188] - Recovery of the nucleosomes carrying the H3K4me1, H3K4me2, H3K4me3, H3K9me1, H3K27me1, H3K36me1, H4K20me1 and the unmodified H3K4 as determined by qPCR. The figure clearly shows the antibody is very specific in ChIP for the H3K4me1 modification.



Chromatin Immunoprecipitation: Histone H3 [Methyl Lys4] Antibody [NBP2-59188] - ChIP was performed with the antibody against H3K4me1 on sheared chromatin from 500,000 HeLaS3 cells using a ChIP-seq kit. The chromatin was spiked with a panel of in vitro assembled nucleosomes, each containing a specific lysine methylation (SNAP-ChIP K-MetStat Panel, Epicypher). A titration of the antibody consisting of 0.5, 1, 2 and 5 µg per ChIP experiment was analysed. IgG (2 µg/IP) was used as negative IP control. Quantitative PCR was performed with primers for a region surrounding the ACTB and GAS2L1 genes, used as positive controls, and for the promoters of the GAPDH and EIF4A2 genes, used as negative controls. The graph 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 [Methyl Lys4] Antibody [NBP2-59188] - A Dot Blot analysis was performed to test the cross reactivity of the antibody against H3K4me1 with peptides containing other modifications or unmodified sequences of histone H3 and H4. One hundred to 0.2 pmol of the respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:10,000. Figure shows a high specificity of the antibody for the modification of interest.



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Products Related to NBP2-59188

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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

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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