

Product Datasheet

Histone H3 [Trimethyl Lys9] Antibody - BSA Free NBP2-59198

Unit Size: 50 ug

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

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NBP2-59198

Histone H3 [Trimethyl 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

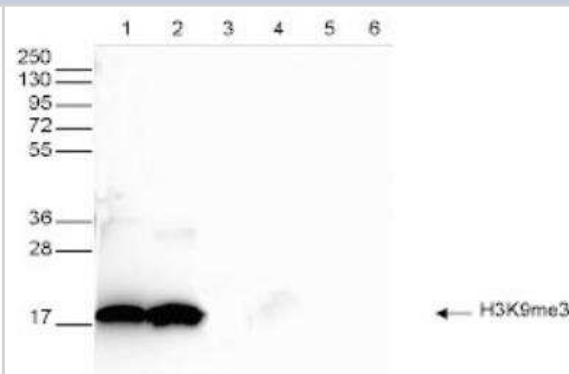
Description	Novus Biologicals Rabbit Histone H3 [Trimethyl Lys9] Antibody - BSA Free (NBP2-59198) is a polyclonal antibody validated for use in WB, ELISA, ICC/IF and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human, Mouse, A. thaliana, Fish, Zebrafish
Reactivity Notes	Trout
Immunogen	The exact sequence of the immunogen to this Histone H3 [Trimethyl Lys9] antibody is proprietary.

Product Application Details

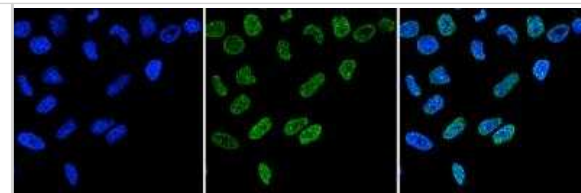
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:1000, ELISA 1:100 - 1:1000, Immunocytochemistry/ Immunofluorescence 1:1000, Dot Blot 1:20000, Chromatin Immunoprecipitation (ChIP) 0.5-1 ug/IP, Chromatin Immunoprecipitation Sequencing

Images

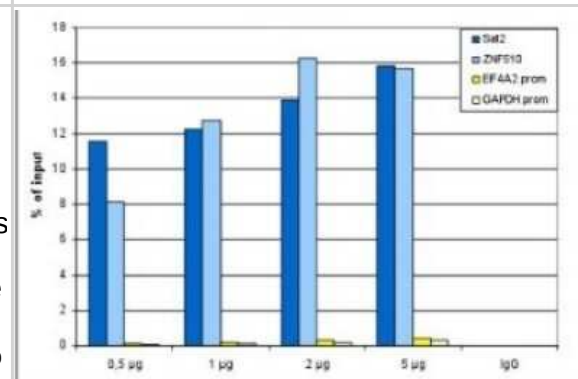
Western Blot: Histone H3 [Trimethyl Lys9] Antibody [NBP2-59198] - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H3K9me3. The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~18 kDa.



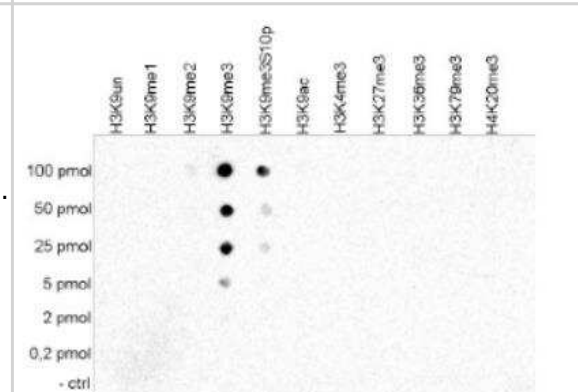
Immunocytochemistry/Immunofluorescence: Histone H3 [Trimethyl Lys9] Antibody [NBP2-59198] - HeLa cells were stained with the Diagenode antibody against H3K9me3 and with DAPI. Cells were fixed with 4% formaldehyde for 10 minutes and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labelled with the H3K9me3 antibody (middle) diluted 1:1,000 in blocking solution followed by an anti-rabbit antibody conjugated to Alexa488. The left panel shows staining of the nuclei with DAPI. A merge of both stainings is shown on the right.



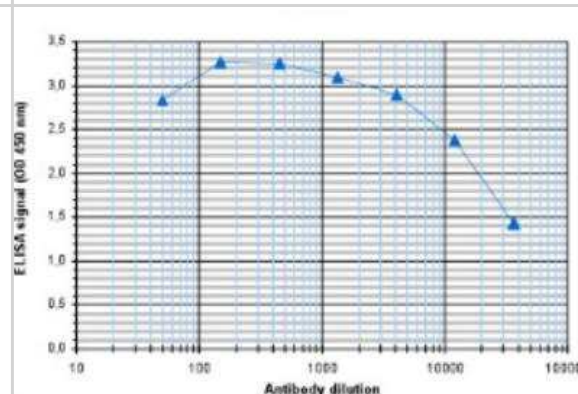
Chromatin Immunoprecipitation: Histone H3 [Trimethyl Lys9] Antibody [NBP2-59198] - ChIP assays were performed using human HeLa cells, the antibody against H3K9me3 and optimized PCR primer sets for qPCR. ChIP was performed on sheared chromatin from 1 million HeLaS3 cells using the "Auto Histone ChIP-seq" kit on the SX-8G IP-Star automated system. A titration of the antibody consisting of 1, 2, 5, and 10 ug per ChIP experiment was analysed. IgG (2 ug/IP) was used as negative IP control. QPCR was performed with primers for the heterochromatin marker Sat2 and for the ZNF510 gene, used as positive controls, and for the promoters of the active c-fos and GAPDH 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 [Trimethyl Lys9] Antibody [NBP2-59198] - A Dot Blot analysis was performed to test the cross reactivity of the antibody against H3K9me3 with peptides containing other modifications and unmodified sequences of histone H3 and H4. One hundred to 0.2 pmol of the peptide containing the respective histone modification were spotted on a membrane. The antibody was used at a dilution of 1:20,000. Figure shows a high specificity of the antibody for the modification of interest.



ELISA: Histone H3 [Trimethyl Lys9] Antibody [NBP2-59198] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against human H3K9me3 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 1:30,000.





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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB21-1001PEP	Histone H3 [Monomethyl Arg2] Antibody Blocking Peptide

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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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