

Product Datasheet

Histone H3 [Trimethyl Lys36] Antibody - BSA Free NBP2-54611

Unit Size: 50 ug

Store at -20 to -80C. Avoid freeze-thaw cycles.

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NBP2-54611

Histone H3 [Trimethyl Lys36] Antibody - BSA Free

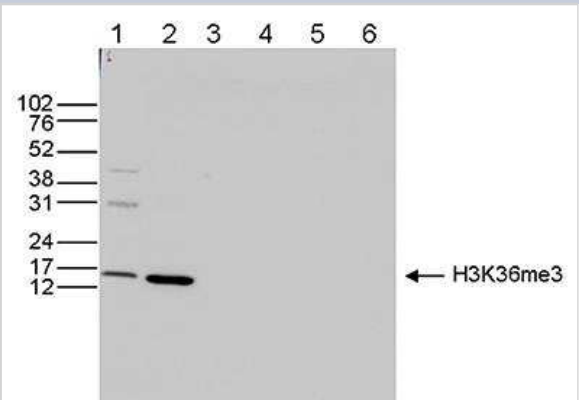
Product Information	
Unit Size	50 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20 to -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide and 0.05% ProClin 300
Isotype	IgG
Purity	Affinity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

Product Description	
Description	Novus Biologicals Rabbit Histone H3 [Trimethyl Lys36] Antibody - BSA Free (NBP2-54611) 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, Plant
Reactivity Notes	Rice
Immunogen	This Histone H3 [Trimethyl Lys4] antibody was developed against H3K4Me3

Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Protein Array, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:1000, ELISA 1:4000, Immunocytochemistry/ Immunofluorescence 1:500, Dot Blot 1:10000 - 1:20000, Protein Array 1:10000 - 1:20000, Chromatin Immunoprecipitation (ChIP) 0.5-1 ug/IP, Chromatin Immunoprecipitation Sequencing

Images

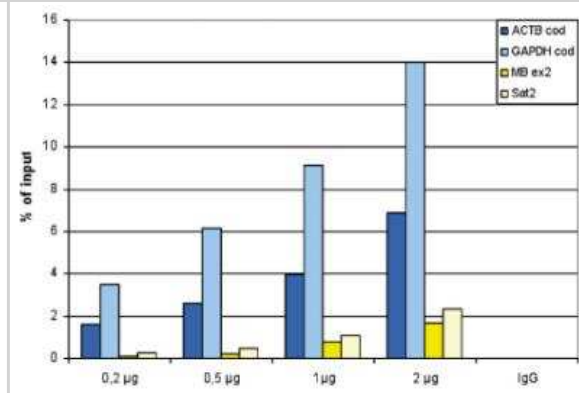
Western Blot: Histone H3 [Trimethyl Lys36] Antibody [NBP2-54611] - Histone 3 [Trimethyl Lys36] Antibody [NBP2-54611] - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H3K36me3. The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight ~16 kDa.



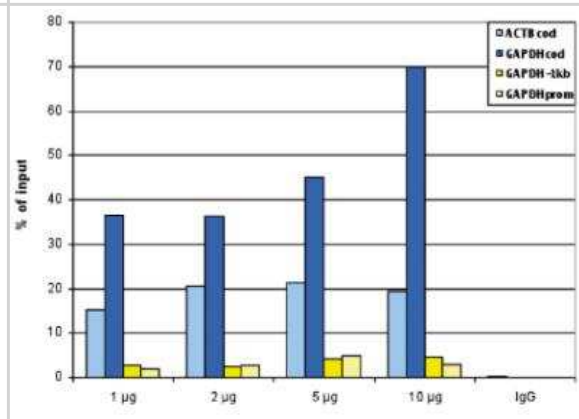
Immunocytochemistry/Immunofluorescence: Histone H3 [Trimethyl Lys36] Antibody [NBP2-54611] - Histone 3 [Trimethyl Lys36] Antibody [NBP2-54611] - HeLa cells were stained with the antibody against H3K36me3 and with DAPI. Cells were fixed with 4% formaldehyde for 10 min. and blocked with PBS/Triton X-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H3K36me3 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.



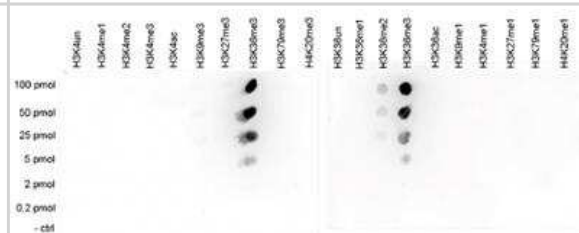
Chromatin Immunoprecipitation Sequencing: Histone H3 [Trimethyl Lys36] Antibody [NBP2-54611] - ChIP assays were performed using human K562 cells, the antibody against H3K36me3 and optimized PCR primer pairs for qPCR. ChIP was performed with a ChIP-seq kit, using sheared chromatin from 100,000 cells. A titration consisting of 0.2, 0.5, 1 and 2 μ g of antibody per ChIP experiment was analyzed. IgG (1 μ g/IP) was used as a negative IP control. Quantitative PCR was performed with primers for the coding region of the active GAPDH and ACTB genes, used as positive controls, and for the coding region of the inactive MB gene and the Sat satellite repeat, used as negative controls. Figure 1 shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



Chromatin Immunoprecipitation: Histone H3 [Trimethyl Lys36] Antibody [NBP2-54611] - ChIP assays were performed using human HeLa cells, the antibody against H3K36me3 and optimized PCR primer pairs for qPCR. ChIP was performed with an Histone ChIP-seq kit, using sheared chromatin from 1,000,000 cells. A titration consisting of 1, 2, 5 and 10 μ g of antibody per ChIP experiment was analyzed. IgG (2 μ g/IP) was used as a negative IP control. Quantitative PCR was performed with primers for the coding region of the active GAPDH and ACTB genes, used as positive controls, and for the promoter and a region located 1 kb upstream of the promoter of the GAPDH gene, used as negative controls.



Dot Blot: Histone H3 [Trimethyl Lys36] Antibody [NBP2-54611] - Histone 3 [Trimethyl Lys36] Antibody [NBP2-54611] - To test the cross reactivity of the antibody against H3K36me3, a Dot Blot analysis was performed 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 1:20,000. The figure shows a high specificity of the antibody for the modification of interest.





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