

Product Datasheet

Histone H3 [Trimethyl Lys4] Antibody (C.15200152) - BSA Free NBP2-59289

Unit Size: 50 ug

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

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NBP2-59289

Histone H3 [Trimethyl Lys4] Antibody (C.15200152) - 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	Monoclonal
Clone	C.15200152
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS
Target Molecular Weight	15 kDa

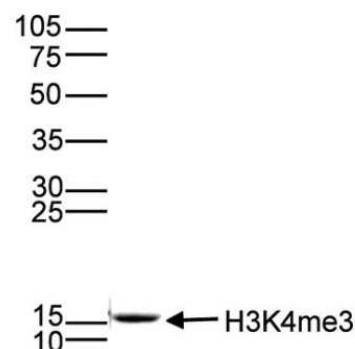
Product Description	
Description	Novus Biologicals Mouse Histone H3 [Trimethyl Lys4] Antibody (C.15200152) - BSA Free (NBP2-59289) is a monoclonal antibody validated for use in WB, ELISA, ICC/IF and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	126961
Gene Symbol	H3C14
Species	Human, Mouse, A. thaliana, Parasite
Immunogen	The exact sequence of the immunogen to this Histone H3 [Trimethyl Lys4] antibody (C.15200152) is proprietary.

Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:1000, ELISA 1:5000, Immunocytochemistry/ Immunofluorescence 1:500, Chromatin Immunoprecipitation (ChIP) 2 ug, Chromatin Immunoprecipitation Sequencing 2 ug/ChIP



Images

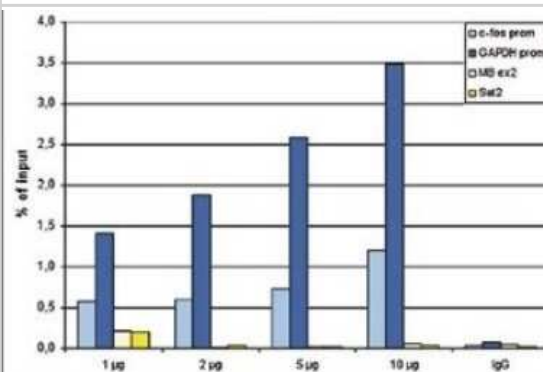
Western Blot: Histone H3 [Trimethyl Lys4] Antibody (C.15200152) [NBP2-59289] - Histone extracts (15 ug) from HeLa cells were analysed by Western blot using the antibody against H3K4me3 diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~15 kDa.



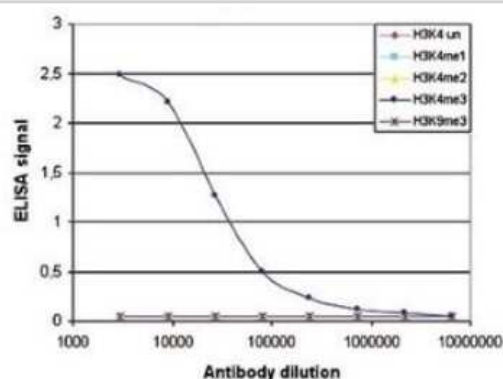
Immunocytochemistry/Immunofluorescence: Histone H3 [Trimethyl Lys4] Antibody (C.15200152) [NBP2-59289] - HeLa cells were stained with the antibody (left) diluted 1:500 in blocking solution followed by an anti-mouse antibody conjugated to Alexa Fluor 594. The middle panel shows staining of the nuclei with DAPI. A merge of the two stainings is shown on the right.



Chromatin Immunoprecipitation: Histone H3 [Trimethyl Lys4] Antibody (C.15200152) [NBP2-59289] - ChIP assays were performed using human HeLa cells, the antibody against H3K4me3 and PCR primer pairs for qPCR. ChIP was performed with a Histone ChIP-seq kit, using sheared chromatin from 1 million cells. A titration consisting of 1, 2, 5 and 10 ug of antibody per ChIP experiment was analyzed. IgG (2 ug/IP) was used as a negative IP control. Quantitative PCR was performed with primers specific for the promoter of the constitutively expressed GAPDH and c-fos genes, used as positive controls, and for exon 2 of the inactive myoglobin (MB) gene and the Sat2 satellite repeat, 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). These results are in accordance with the observation that trimethylation of K4 at histone H3 is associated with the promoters of active genes.



ELISA: Histone H3 [Trimethyl Lys4] Antibody (C.15200152) [NBP2-59289] - Cross reactivity of the antibody directed against H3K4me3. To test the specificity an ELISA was performed using a serial dilution of the antibody against H3K4me3. The wells were coated with peptides containing the unmodified H3K4 as well as the mono-, di- and trimethylated H3K4 and the trimethylated H3K9. Figure shows a high specificity of the antibody for the modification of interest.





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Products Related to NBP2-59289

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NB21-1202PEP	Histone H3 [Sym-dimethyl Arg2, Dimethyl Lys4] 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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