

Product Datasheet

Histone H3 [Trimethyl Lys27] Antibody - BSA Free NBP2-59206

Unit Size: 50 ug

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

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NBP2-59206

Histone H3 [Trimethyl Lys27] 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

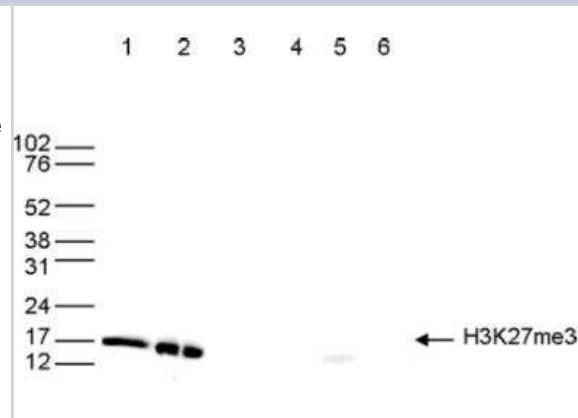
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human, Mouse, Rat, A. thaliana, Drosophila, Parasite, Zebrafish
Reactivity Notes	Schistosoma
Immunogen	The exact sequence of the immunogen to this Histone H3 [Trimethyl Lys27] antibody is proprietary.

Product Application Details

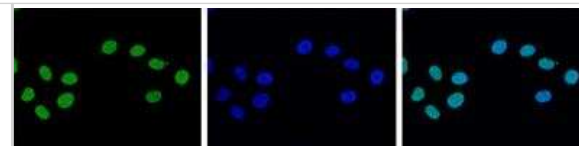
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing, Knockdown Validated
Recommended Dilutions	Western Blot 1:1000, ELISA 1:200, Immunocytochemistry/ Immunofluorescence 1:500, Dot Blot 1:20000, Chromatin Immunoprecipitation (ChIP) 1 ug/IP, Chromatin Immunoprecipitation Sequencing, Knockdown Validated
Application Notes	Use in KD reported in scientific publication PMID: 32427586

Images

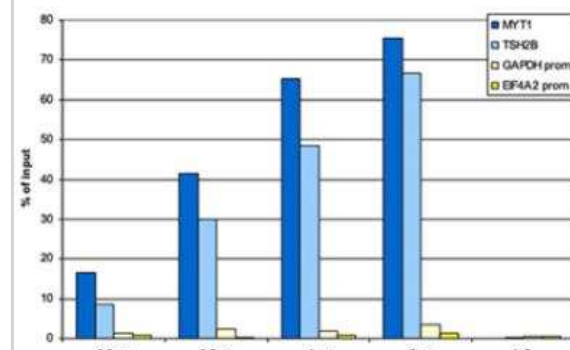
Western Blot: Histone H3 [Trimethyl Lys27] Antibody [NBP2-59206] - Western blot was performed on whole cell (40 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H3K27me3. The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~15 kDa.



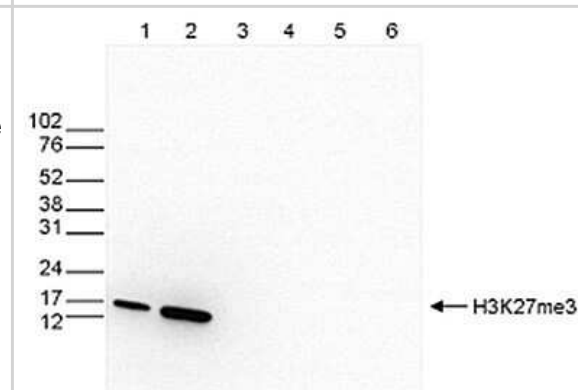
Immunocytochemistry/Immunofluorescence: Histone H3 [Trimethyl Lys27] Antibody [NBP2-59206] - HeLa cells were stained with the antibody against H3K27me3 and with DAPI. Cells were fixed with 4% formaldehyde for 10' and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H3K27me3 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.



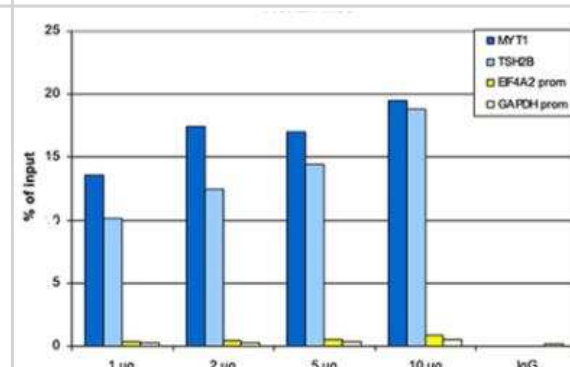
Chromatin Immunoprecipitation: Histone H3 [Trimethyl Lys27] Antibody [NBP2-59206] - ChIP assays were performed using human K562 cells, the antibody against H3K27me3 and optimized PCR primer pairs for qPCR. ChIP was performed with a ChIP-seq kit, using sheared chromatin from 100,000 cells. The indicated amounts of antibody were used per ChIP experiment. IgG (1 ug/IP) was used as a negative IP control. Quantitative PCR was performed with primers specific for the promoter of the active genes GAPDH and EIF4A2, used as negative controls, and TSH2B and MYT1, used as positive controls. The figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



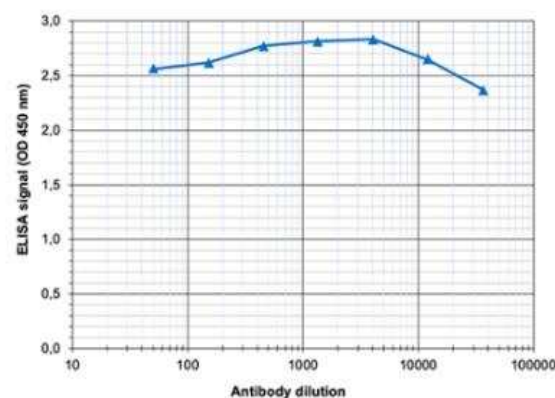
Western Blot: Histone H3 [Trimethyl Lys27] Antibody [NBP2-59206] - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H3K27me3 diluted 1:500 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~15 kDa.



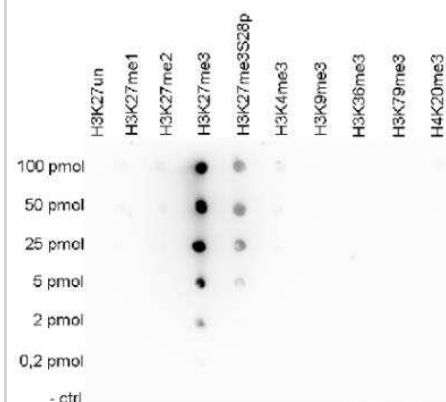
Chromatin Immunoprecipitation: Histone H3 [Trimethyl Lys27] Antibody [NBP2-59206] - ChIP assays were performed using human K562 cells, the antibody against H3K27me3 and optimized PCR primer pairs for qPCR. ChIP was performed with a ChIP-seq kit, using sheared chromatin from 1 million cells. The indicated amounts of antibody were used per ChIP experiment. IgG (1 ug/IP) was used as a negative IP control. Quantitative PCR was performed with primers specific for the promoter of the active genes GAPDH and EIF4A2, used as negative controls, and TSH2B and MYT1, used as positive controls. The figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



ELISA: Histone H3 [Trimethyl Lys27] Antibody [NBP2-59206] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody against H3K27me3. 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 >1:1,000,000.



Dot Blot: Histone H3 [Trimethyl Lys27] Antibody [NBP2-59206] - To test the cross reactivity of the antibody against H3K27me3, 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. Figure shows a high specificity of the antibody for the modification of interest.



Publications

Yang Y, Chen C, Zuo Q Et al. NARF is a hypoxia-induced coactivator for OCT4-mediated breast cancer stem cell specification Sci Adv 2022-12-09 [PMID: 36490339] (Chemotaxis, Human)

Details:

Citation using the DyLight 405 version of this antibody.

Lu H, Xie Y, Tran L et al. Chemotherapy-induced S100A10 recruits KDM6A to facilitate OCT4-mediated breast cancer stemness J Clin Invest. 2020-05-19 [PMID: 32427586] (KD, WB, Human)



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Products Related to NBP2-59206

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB21-1101PEP	Histone H3 [p Thr11] Antibody Blocking Peptide

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