

Product Datasheet

Histone H3 [Trimethyl Lys36] Antibody - BSA Free NBP2-59199

Unit Size: 50 ug

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

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Publications: 4

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NBP2-59199

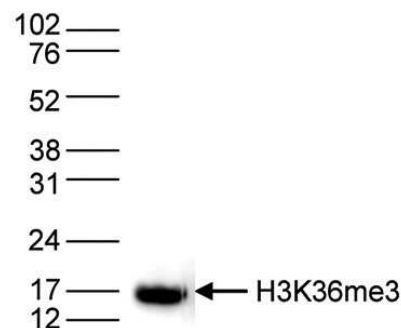
Histone H3 [Trimethyl Lys36] Antibody - BSA Free

Product Information	
Unit Size	50 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -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 Lys36] Antibody - BSA Free (NBP2-59199) is a polyclonal antibody validated for use in WB, ELISA and ChIP. Anti-Histone H3 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human, Drosophila, Zebrafish
Immunogen	The exact sequence of the immunogen to this Histone H3 [Trimethyl Lys36] antibody is proprietary.
Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:1000, ELISA 1:500, Dot Blot 1:20000, Chromatin Immunoprecipitation (ChIP) 1-2 ug, Chromatin Immunoprecipitation Sequencing

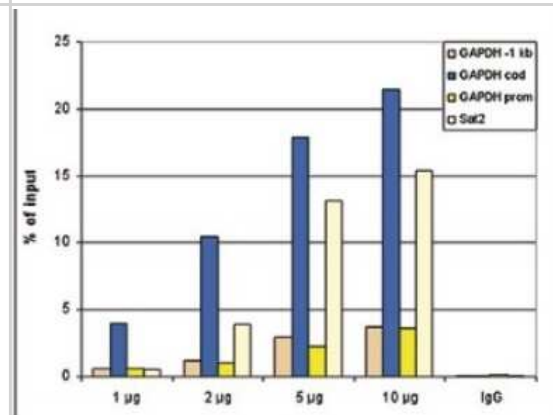


Images

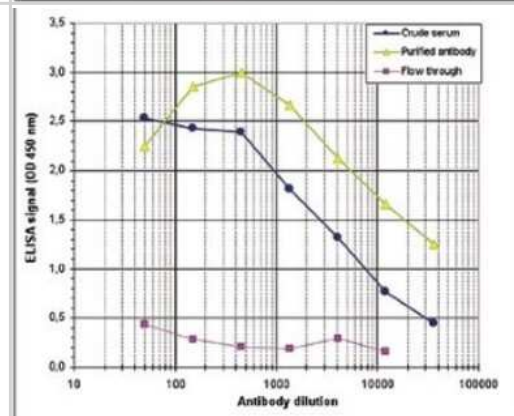
Western Blot: Histone H3 [Trimethyl Lys36] Antibody [NBP2-59199] - Histone extracts (15 ug) from HeLa cells were analysed by Western blot using the antibody directed against H3K36me3 diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~17 kDa.



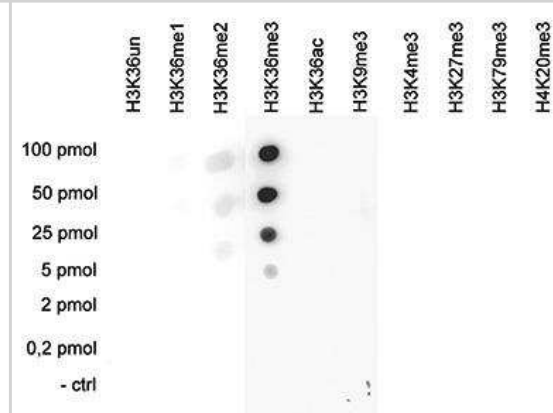
Chromatin Immunoprecipitation: Histone H3 [Trimethyl Lys36] Antibody [NBP2-59199] - ChIP assays were performed using HeLa cells, the antibody against H3K36me3 and optimized PCR primer sets for qPCR. ChIP was performed using sheared chromatin from 1 million cells. A titration consisting of 1, 2, 5 and 10 ug of antibody per ChIP experiment was analyzed. IgG (2 ug/IP) was used as a negative IP control. QPCR was performed with primers for the promoter and coding region of the active GAPDH, for a region located 1 kb upstream of the GAPDH promoter and for the Sat2 satellite repeat. 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 Lys36] Antibody [NBP2-59199] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H3K36me3 and the crude serum. The antigen used was a peptide containing the histone modification of interest. By plotting the absorbance against the antibody dilution, the titer of the purified antibody was estimated to be 1:19,300.



Dot Blot: Histone H3 [Trimethyl Lys36] Antibody [NBP2-59199] - A Dot Blot analysis was performed to test the cross reactivity of the antibody against H3K36me3 with peptides containing other H3 and H4 modifications and the unmodified sequence. One hundred to 0.2 pmol of 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.



Publications

Lyu Y, Yang Y, Talwar V et al Hypoxia-inducible factor 1 recruits FACT and RNF20/40 to mediate histone ubiquitination and transcriptional activation of target genes Cell Rep 2024-03-22 [PMID: 38517892]

Lyu Y, Yang Y, Talwar V et al Hypoxia-inducible factor 1 recruits FACT and RNF20/40 to mediate histone ubiquitination and transcriptional activation of target genes Cell Rep 2024-03-23 [PMID: 38517893] (ChIP, Human)

Yang Y, Lu H, Chen C et al. HIF-1 Interacts with TRIM28 and DNA-PK to release paused RNA polymerase II and activate target gene transcription in response to hypoxia Nature communications 2022-01-14 [PMID: 35031618] (Chemotaxis)

Wang Y, Lyu Y, Tu K Et al. Histone citrullination by PADI4 is required for HIF-dependent transcriptional responses to hypoxia and tumor vascularization Science advances 2021-08-01 [PMID: 34452909] (Chemotaxis, Human)





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Products Related to NBP2-59199

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB21-1024PEP	Histone H3 [ac 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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