

Product Datasheet

Histone H3 [Trimethyl Lys27, p Ser28] Antibody - BSA Free NBP2-59212

Unit Size: 50 ug

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

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NBP2-59212

Histone H3 [Trimethyl Lys27, p Ser28] 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

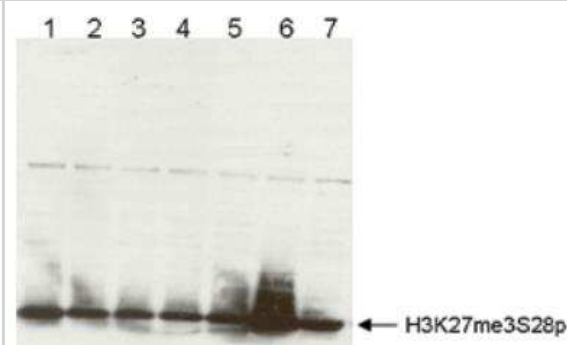
Description	Novus Biologicals Rabbit Histone H3 [Trimethyl Lys27, p Ser28] Antibody - BSA Free (NBP2-59212) is a polyclonal antibody validated for use in WB, ELISA and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human
Immunogen	The exact sequence of the immunogen to this Histone H3 [Trimethyl Lys27, p Ser28] antibody is proprietary.

Product Application Details

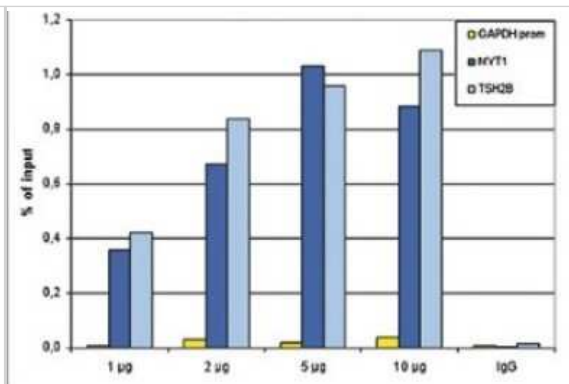
Applications	Western Blot, Dot Blot, ELISA, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:1000, ELISA 1:200, Dot Blot 1:2000, Chromatin Immunoprecipitation (ChIP) 1-2 ug/IP, Chromatin Immunoprecipitation Sequencing

Images

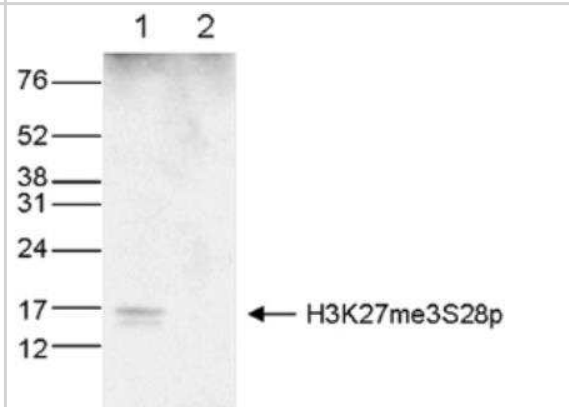
Western Blot: Histone H3 [Trimethyl Lys27, p Ser28] Antibody [NBP2-59212] - Cell cycle experiment using the antibody against H3K27me3S28p. WB was performed on cells blocked in different stages of the cell cycle (1=asynchronous population, 2=G1/Sa, 3=G1/Sb, 4=S phase, 5=G2/M, 6=M, 7=G1). The picture shows a nice peak of H3K27me3S28p expression during mitosis. Theoretical molecular weight is ~15 kDa.



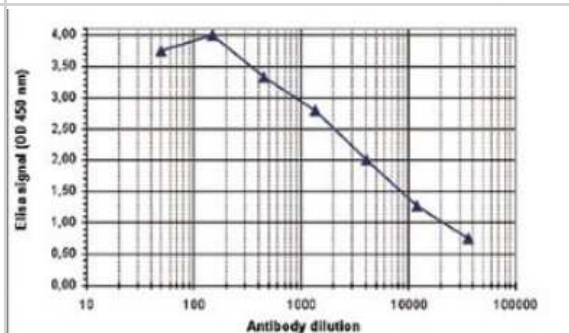
Chromatin Immunoprecipitation: Histone H3 [Trimethyl Lys27, p Ser28] Antibody [NBP2-59212] - ChIP assays were performed using human HeLa cells treated with colcemid, the antibody against H3K27me3S28p and optimized PCR primer sets for qPCR. ChIP was performed using sheared chromatin from 1 million cells. 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 promoter of the active gene GAPDH as a negative control, and for the coding regions of the inactive genes MYT1 and TSH2B as positive 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 H3K27me3S28p is preferably present at inactive genes.



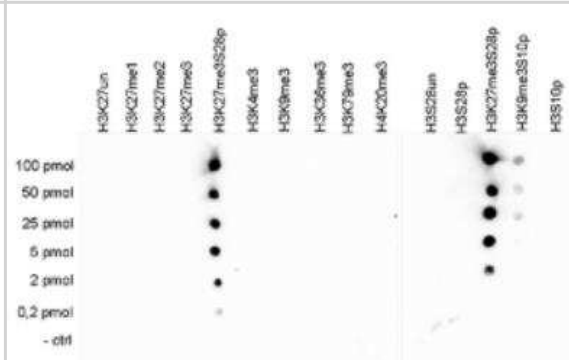
Western Blot: Histone H3 [Trimethyl Lys27, p Ser28] Antibody [NBP2-59212] - Western blot was performed on histone extracts (15 ug, lane 1) from HeLa cells, and on 1 ug of recombinant histone H3 (lane 2) using the antibody against H3K27me3S28p diluted 1:100 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~17 kDa.



ELISA: Histone H3 [Trimethyl Lys27, p Ser28] Antibody [NBP2-59212] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H3K27me3S28p. 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 1:4,300.



Dot Blot: Histone H3 [Trimethyl Lys27, p Ser28] Antibody [NBP2-59212] - A Dot Blot analysis was performed to test the cross reactivity of the antibody against H3K27me3S28p with peptides containing other modifications of histone H3 and H4 and the unmodified H3K27S28 sequence. 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 1:2,000. The figure shows a high specificity of the antibody for the modification of interest.





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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
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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