

Product Datasheet

Histone H3 [Trimethyl Lys4] Antibody NBP2-59143

Unit Size: 100 ul

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

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NBP2-59143

Histone H3 [Trimethyl Lys4] Antibody

Product Information

Unit Size	100 ul
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
Isotype	IgG
Purity	Whole Antiserum
Buffer	Serum
Target Molecular Weight	15 kDa

Product Description

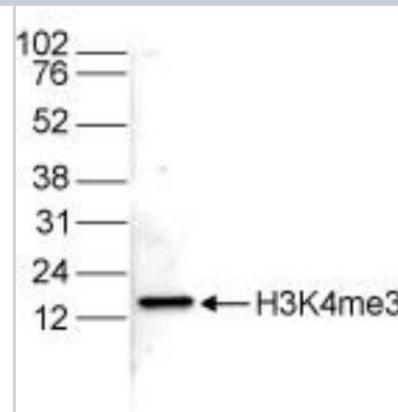
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human, <i>C. elegans</i>
Immunogen	The exact sequence of the immunogen to this Histone H3 [Trimethyl Lys4] antibody is proprietary.

Product Application Details

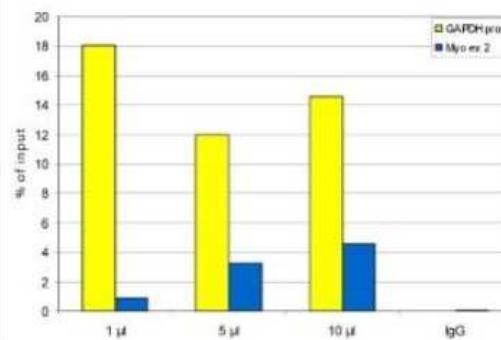
Applications	Western Blot, Chromatin Immunoprecipitation, Dot Blot, ELISA
Recommended Dilutions	Western Blot 1:1000, Chromatin Immunoprecipitation 1 uL/IP, ELISA 1:100 - 1:500, Dot Blot 1:20000

Images

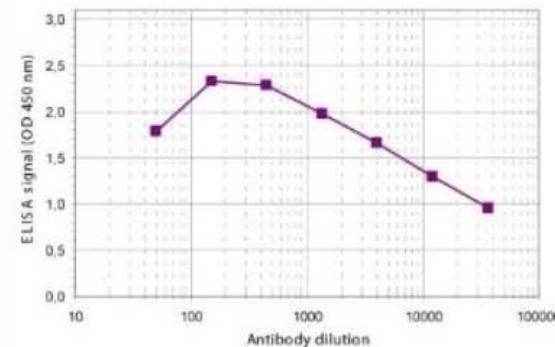
Western Blot: Histone H3 [Trimethyl Lys4] Antibody [NBP2-59143] - Histone extracts of HeLa cells (15 ug) were analyzed by Western blot using the antibody against H3K4me3 diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~15 kDa.



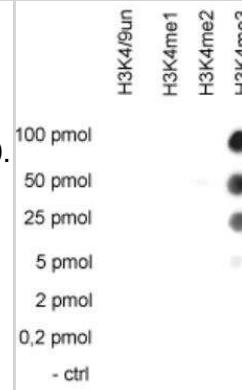
Chromatin Immunoprecipitation: Histone H3 [Trimethyl Lys4] Antibody [NBP2-59143] - ChIP assays were performed using human U2OS cells, the antibody against H3K4me3 and optimized PCR primer pairs for qPCR. ChIP was performed using sheared chromatin from 2 million cells and stringent washing conditions. A titration consisting of 1, 5 and 10 μ L of antibody per ChIP experiment was analyzed. IgG (1 ug/ IP) was used as a negative IP control. Quantitative PCR was performed with primers for the promoter of the constitutively expressed GAPDH gene and for myoglobin exon 2. 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 [NBP2-59143] - To determine the titer, an ELISA was performed using a serial dilution of the antibody directed against human H3K4me3 in antigen coated wells. 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 1:19,000.



Dot Blot: Histone H3 [Trimethyl Lys4] Antibody [NBP2-59143] - Analysis was performed to test the cross reactivity of the antibody against H3K4me3 with peptides containing other H3K4 methylations and the unmodified sequence. 100 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.





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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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