Product Datasheet

Histone H3 [Methyl Lys9] Antibody
NBP2-59156

Unit Size: 100 ul

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

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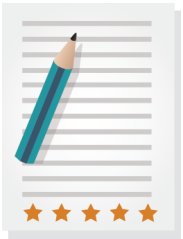


NBP2-59156

Histone H3 [Methyl Lys9] Antibody

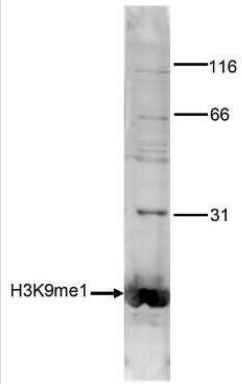
Product Information	
Unit Size	100 ul
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Whole Antiserum
Buffer	Serum
Target Molecular Weight	15 kDa

Product Description	
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human
Immunogen	The exact sequence of the immunogen to this Histone H3 [Methyl Lys9] antibody is proprietary.

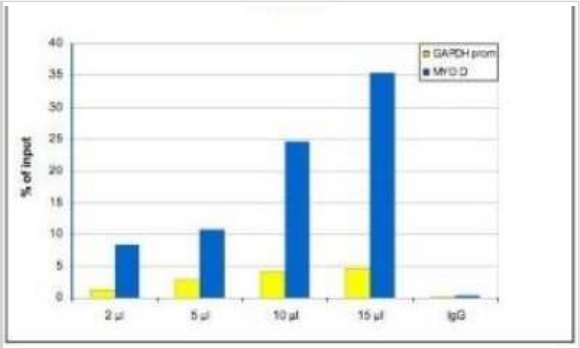
Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunofluorescence
Recommended Dilutions	Western Blot 1:1000, Chromatin Immunoprecipitation 10 uL/IP, ELISA 1:2000 - 1:3000, Immunocytochemistry/ Immunofluorescence 1:200, Dot Blot 1:200000, Immunofluorescence 1:200

Images

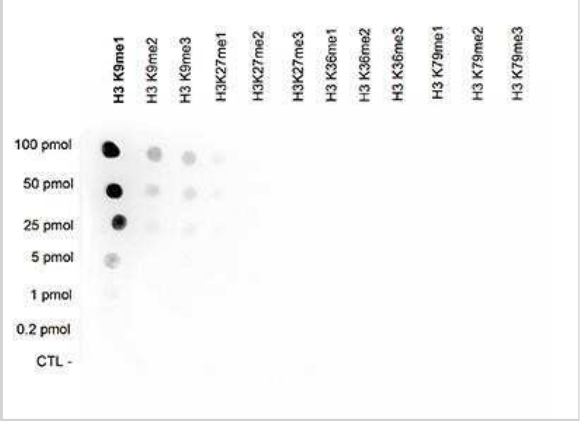
Western Blot: Histone H3 [Methyl Lys9] Antibody [NBP2-59156] - Histone extracts of HeLa cells (15 ug) were analyzed using the antibody against H3K9me1 diluted 1:1000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~15 kDa.



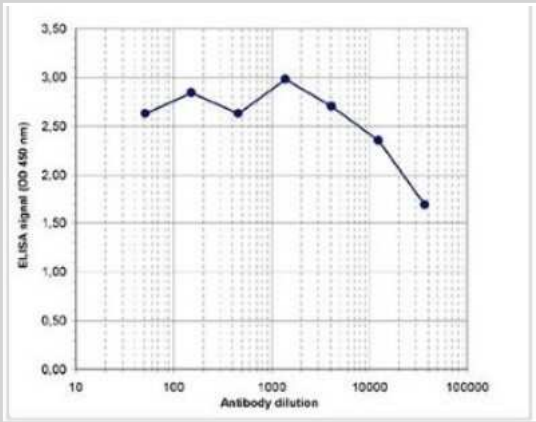
Chromatin Immunoprecipitation: Histone H3 [Methyl Lys9] Antibody [NBP2-59156] - ChIP assays were performed using human osteosarcoma (U2OS) cells, the antibody against H3K9me1 and optimized PCR primer sets for qPCR. Chromatin was sheared. ChIP was performed using sheared chromatin from 1.6 million cells. A titration of the antibody consisting of 2, 5, 10 and 15 ul per ChIP experiment was analysed. IgG (5 ug/IP) was used as negative IP control. Quantitative PCR was performed using primers for the promoter of the housekeeping gene GAPDH and for the coding region of the myogenic differentiation gene (MYOD), a gene that is inactive at normal conditions. Figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



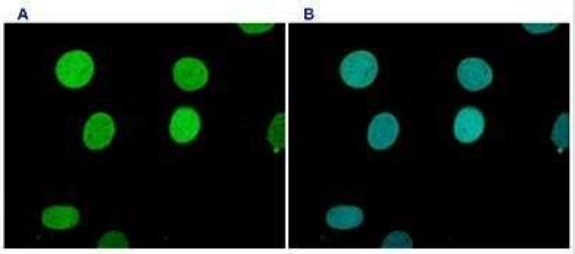
Dot Blot: Histone H3 [Methyl Lys9] Antibody [NBP2-59156] - A Dot Blot analysis was performed to test the cross reactivity of the antibody against H3K9me1 with peptides containing other modifications of histone H3. Other histone modifications include di- and trimethylation of the same lysine and mono-, di- and trimethylation of lysine 27, 36 and 79. 100 to 0.2 pmol of peptide containing the respective histone modification were spotted on a membrane. The antibody was used at a dilution of 1:200,000. Figure shows a high specificity of the antibody for the modification of interest.



ELISA: Histone H3 [Methyl Lys9] Antibody [NBP2-59156] - To determine the titer, an ELISA was performed using a serial dilution of the antibody directed against H3K9me1. 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 1:50,000.



Immunofluorescence: Histone H3 [Methyl Lys9] Antibody [NBP2-59156] - HeLa cells were stained with the antibody against H3K9me1 and with DAPI. Cells were formaldehyde fixated, permeabilized with Triton X-100 and blocked with PBS containing 2.5% BSA. FigureA: cells were immunofluorescently labelled with the H3K9me1 antibody (diluted 1:200 and incubated for 1 hour at room temperature) followed by goat anti-rabbit antibody conjugated to DyLight. FigureB: staining of the nuclei with DAPI, which specifically labels DNA. Both antibody and DAPI staining are restricted to the nucleus.



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