

Product Datasheet

Histone H3 [Dimethyl Lys9] Antibody - BSA Free NBP2-59200

Unit Size: 50 ug

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

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NBP2-59200

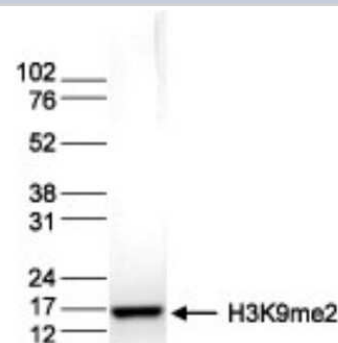
Histone H3 [Dimethyl Lys9] Antibody - BSA Free

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 [Dimethyl Lys9] Antibody - BSA Free (NBP2-59200) is a polyclonal antibody validated for use in WB, ELISA, ICC/IF and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human, Mouse, A. thaliana, Plant, Xenopus
Reactivity Notes	Rice, tomato, B. napus
Immunogen	The exact sequence of the immunogen to this Histone H3 [Dimethyl Lys9] antibody is proprietary.
Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Immunofluorescence
Recommended Dilutions	Western Blot 1:1000, ELISA 1:1000, Immunocytochemistry/ Immunofluorescence 1:500, Dot Blot 1:20000, Immunofluorescence 1:500, Chromatin Immunoprecipitation (ChIP) 2 ug/IP



Images

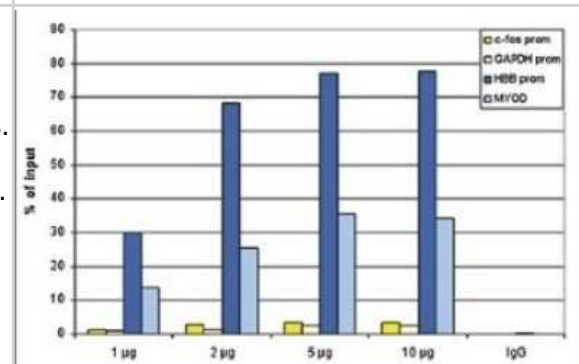
Western Blot: Histone H3 [Dimethyl Lys9] Antibody [NBP2-59200] - Histone extracts (15 ug) from HeLa cells were analysed by Western blot using the antibody against H3K9me2 diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~17 kDa.



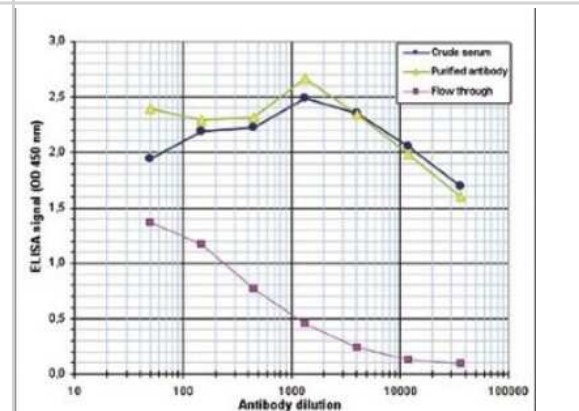
Immunocytochemistry/Immunofluorescence: Histone H3 [Dimethyl Lys9] Antibody [NBP2-59200] - Mouse NIH3T3 cells were stained with the antibody against H3K9me2 and with DAPI. Cells were fixed with 4% formaldehyde for 10' and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H3K9me2 antibody (left) diluted 1:500 in blocking solution followed by an anti-rabbit antibody conjugated to Alexa488. 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 [Dimethyl Lys9] Antibody [NBP2-59200] - ChIP assays were performed using human HeLa cells, the antibody against H3K9me2 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 specific for promoter of the inactive HBB gene and the coding region of the inactive MYOD gene, used as positive controls, and for the promoters of the active genes c-fos and GAPDH, used as negative controls. 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 [Dimethyl Lys9] Antibody [NBP2-59200] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody against H3K9me2, crude serum and Flow through. 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 1:103,000.





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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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