

Product Datasheet

Histone H3 [Methyl Lys36] Antibody NBP2-59211

Unit Size: 50 ug

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

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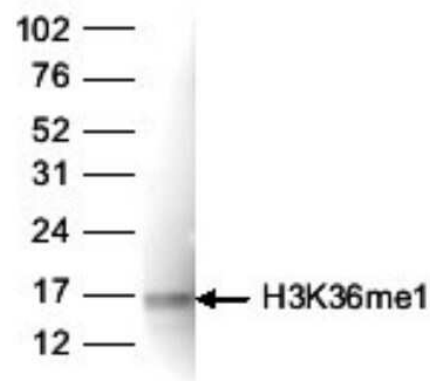
NBP2-59211**Histone H3 [Methyl Lys36] Antibody**

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	
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human
Immunogen	The exact sequence of the immunogen to this Histone H3 [Methyl Lys36] 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 1:100, Immunocytochemistry/Immunofluorescence 1:500, Dot Blot 1:20000, Immunofluorescence 1:500, Chromatin Immunoprecipitation (ChIP) 5 ug/IP

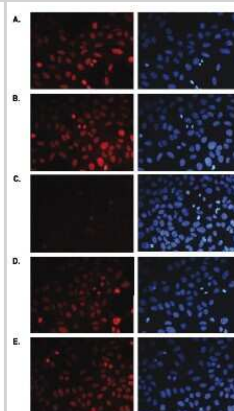


Images

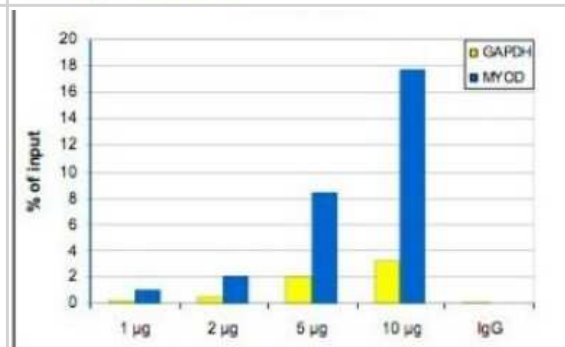
Western Blot: Histone H3 [Methyl Lys36] Antibody [NBP2-59211] - Histone extracts (15 ug) from HeLa cells were analysed by Western blot using the antibody against H3K36me1 diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~17 kDa.



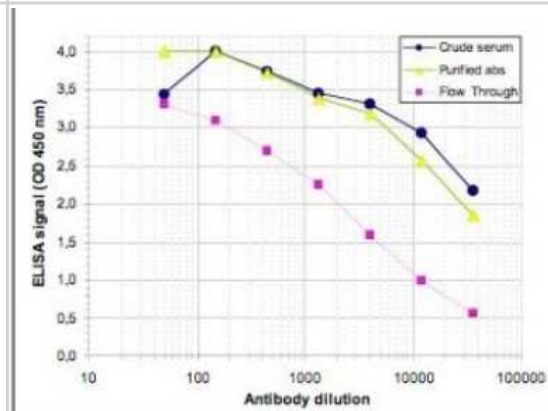
Immunocytochemistry/Immunofluorescence: Histone H3 [Methyl Lys36] Antibody [NBP2-59211] - Human osteosarcoma (U2OS) cells were stained with the antibody against H3K36me1 and with DAPI. Cells were fixed with 4% formaldehyde for 20 minutes and blocked with PBS/TX-100 containing 5% normal goat serum. Figure A: cells were immunofluorescently labeled with the H3K36me1 antibody (left) diluted 1:500 in blocking solution followed by an anti-rabbit antibody conjugated to Alexa Fluor 568 or with DAPI (right), which specifically labels DNA. Figure B, C, D and E: staining of the cells with the H3K36me1 antibody after incubation of the antibody with 2 ng/ul blocking peptide containing the unmodified and the mono-, di- and trimethylated H3K36, respectively.



Chromatin Immunoprecipitation: Histone H3 [Methyl Lys36] Antibody [NBP2-59211] - ChIP assays were performed using human U2OS cells, the antibody against H3K36me1 and optimized PCR primer pairs for qPCR. ChIP was performed using sheared chromatin from 1.5 million cells and stringent washing conditions. A titration consisting of 1, 2, 5 and 10 ug 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 the inactive gene MYOD. 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 [Methyl Lys36] Antibody [NBP2-59211] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H3K36me1, 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 1:46,000.



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Products Related to NBP2-59211

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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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