

Product Datasheet

Histone H3 [Dimethyl Lys4] Antibody (C.15200151) - BSA Free NBP2-59288

Unit Size: 50 ug

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

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NBP2-59288

Histone H3 [Dimethyl Lys4] Antibody (C.15200151) - 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	Monoclonal
Clone	C.15200151
Preservative	0.05% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS
Target Molecular Weight	15 kDa

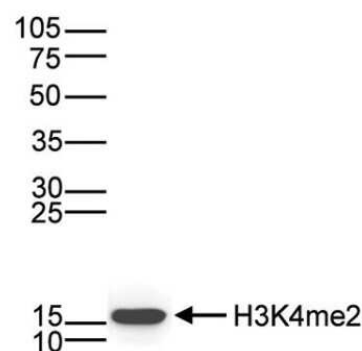
Product Description	
Host	Mouse
Gene ID	126961
Gene Symbol	H3C14
Species	Human, Fungi
Immunogen	The exact sequence of the immunogen to this Histone H3 [Dimethyl Lys4] antibody (C.15200151) is proprietary.

Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:1000, ELISA 1:5000, Immunocytochemistry/ Immunofluorescence 1:500, Chromatin Immunoprecipitation (ChIP) 1 ug



Images

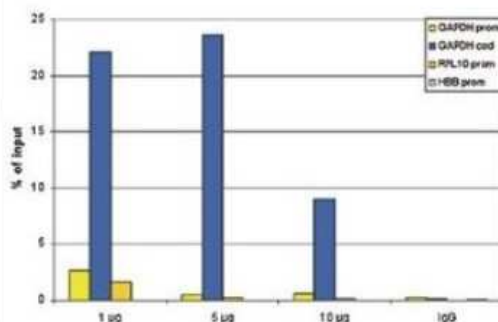
Western Blot: Histone H3 [Dimethyl Lys4] Antibody (C.15200151) [NBP2-59288] - Histone extracts (15 ug) from HeLa cells were analysed by Western blot using the antibody against H3K4me2 diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~16 kDa.



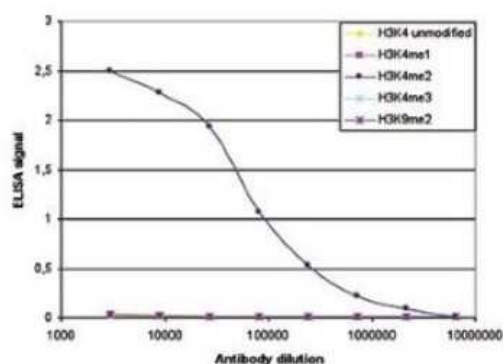
Immunocytochemistry/Immunofluorescence: Histone H3 [Dimethyl Lys4] Antibody (C.15200151) [NBP2-59288] - HeLa cells were stained with the antibody (left) diluted 1:500 in blocking solution followed by an anti-mouse antibody conjugated to Alexa Fluor 594. The middle panel shows staining of the nuclei with DAPI. A merge of the two stainings is shown on the right.



Chromatin Immunoprecipitation: Histone H3 [Dimethyl Lys4] Antibody (C.15200151) [NBP2-59288] - ChIP assays were performed using HeLa cells, the monoclonal antibody against H3K4me2 and optimized PCR primer sets for qPCR. Chromatin was sheared with the antibody consisting of 1, 5 and 10 ug per ChIP experiment was analysed. IgG (5 ug/IP) was used as negative IP control. QPCR was performed with primers for the promoter and the coding region of the GAPDH gene, and for the RPL10 and HBB promoters. 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 Lys4] Antibody (C.15200151) [NBP2-59288] - Cross reactivity of the antibody directed against H3K4me2. To test the specificity an ELISA was performed using a serial dilution of the antibody against H3K4me2. The wells were coated with peptides containing the unmodified H3K4 as well as the mono-, di- and trimethylated H3K4 and the dimethylated H3K9. Figure shows a high specificity of the antibody for the modification of interest.





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NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NB21-1252PEP	Histone H3 [Dimethyl Lys36] 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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