

Product Datasheet

Histone H3 [Dimethyl Lys36] Antibody NBP2-59168

Unit Size: 100 ul

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

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NBP2-59168

Histone H3 [Dimethyl Lys36] 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

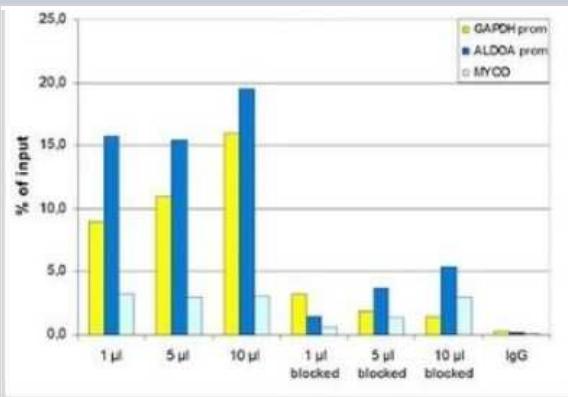
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human
Immunogen	The exact sequence of the immunogen to this Histone H3 [Dimethyl Lys36] antibody is proprietary.

Product Application Details

Applications	Western Blot, Chromatin Immunoprecipitation, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunofluorescence
Recommended Dilutions	Western Blot 1:1000, Chromatin Immunoprecipitation 0.5 - 1 uL/IP, ELISA 1:1000, Immunocytochemistry/ Immunofluorescence 1:500, Dot Blot 1:100000, Immunofluorescence 1:500

Images

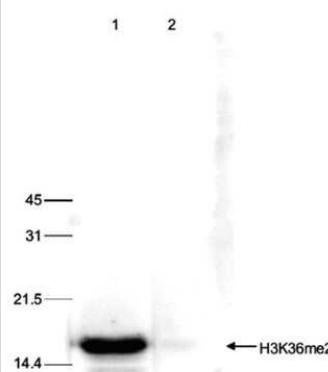
Chromatin Immunoprecipitation: Histone H3 [Dimethyl Lys36] Antibody [NBP2-59168] - ChIP assays were performed using human HeLa cells, the antibody against H3K36me2 and optimized PCR primer sets for qPCR. ChIP was performed using sheared chromatin from 10,000 cells. A titration of the antibody consisting of 1, 5, and 10 μ L per ChIP experiment was analysed. Additionally, the same titration was analysed after incubation of the antibody with 5 nmol blocking peptide for 1 hour at room temperature. IgG (5 μ g/IP) was used as negative IP control. QPCR was performed with primers for the promoter of the active genes GAPDH and ALDOA and for the coding region of the myogenic differentiation gene (MYOD). Figure shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



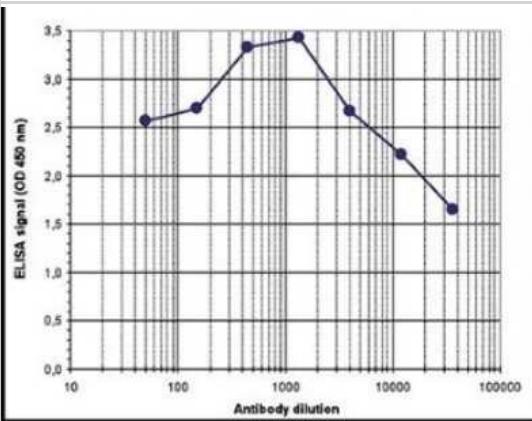
Immunofluorescence: Histone H3 [Dimethyl Lys36] Antibody [NBP2-59168] - HeLa cells were stained with the antibody against H3K36me2 and with DAPI. Cells were fixed with 4% formaldehyde for 10' and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labelled with the H3K36me2 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.



Western Blot: Histone H3 [Dimethyl Lys36] Antibody [NBP2-59168] - The position of the protein of interest is indicated on the right; the marker (kDa) is shown on the left. The result of the Western analysis with the antibody is shown in lane 1; lane 2 shows the same analysis after incubation of the antibody with 5 nmol blocking peptide for 1 hour at room temperature. Observed molecular weight is ~16 kDa.



ELISA: Histone H3 [Dimethyl Lys36] Antibody [NBP2-59168] - To determine the titer, an ELISA was performed using a serial dilution of the antibody directed against H3K36me2. 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 1:31,000.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

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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