

Product Datasheet

Histone H3 [Dimethyl Lys79] Antibody NBP2-59151

Unit Size: 100 ul

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

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NBP2-59151

Histone H3 [Dimethyl Lys79] 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

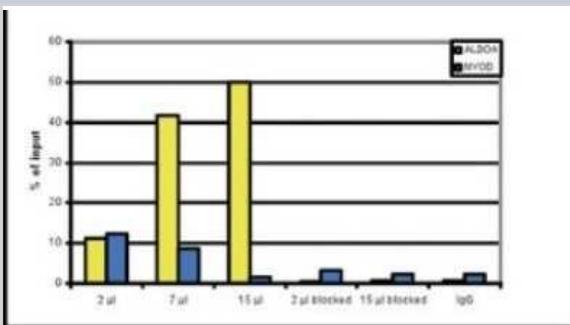
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human
Immunogen	The exact sequence of the immunogen to this Histone H3 [Dimethyl Lys79] antibody is proprietary.

Product Application Details

Applications	Western Blot, Chromatin Immunoprecipitation, Dot Blot, ELISA
Recommended Dilutions	Western Blot 1:250, Chromatin Immunoprecipitation 7 uL/IP, ELISA 1:200, Dot Blot 1:50000

Images

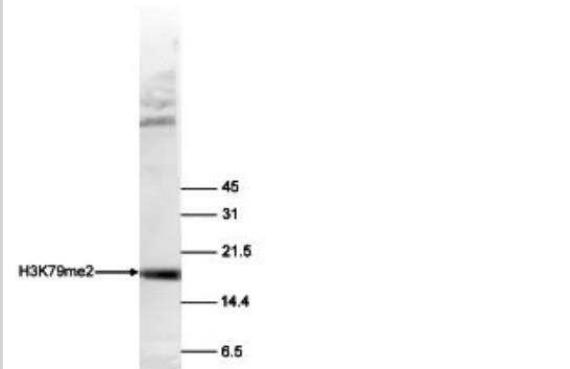
Chromatin Immunoprecipitation: Histone H3 [Dimethyl Lys79] Antibody [NBP2-59151] - ChIP assays were performed using human osteosarcoma (U2OS) cells, the antibody against H3K79me2 and optimized PCR primer sets for qPCR. Chromatin was sheared. ChIP was performed using sheared chromatin from 1.6 million cells. A titration of the antibody consisting of 2, 7 and 15 μ l per ChIP experiment was analysed. Additionally, ChIP was performed with 2 and 15 μ L of antibody after incubation 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 ALDOA (fructose-bisphosphate aldolase A) promoter 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).



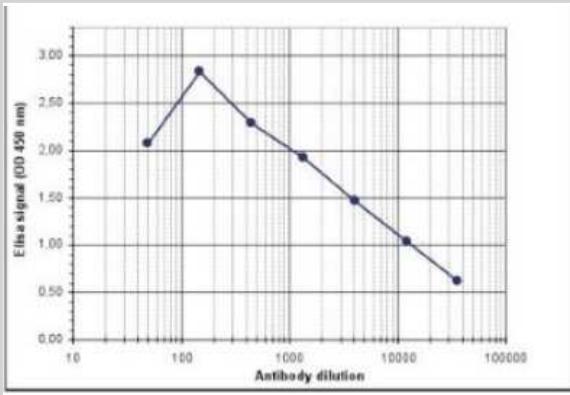
Dot Blot: Histone H3 [Dimethyl Lys79] Antibody [NBP2-59151] - Analysis was performed to test the cross reactivity of the antibody against H3K79me2 with peptides containing other modifications of histone H3. Other H3 modifications include mono- and trimethylation of the same lysine and mono-, di- and trimethylation of lysine 9, 27 and 36. 100 to 0.2 pmol of the peptide containing the respective histone modification were spotted on a membrane. The antibody was used at a dilution of 1:50,000. Figure shows a high specificity of the antibody for the modification of interest.



Western Blot: Histone H3 [Dimethyl Lys79] Antibody [NBP2-59151] - Histone extracts of HeLa cells (15 μ g) were analyzed using the antibody against H3K79me2 diluted 1:250 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~17 kDa.



ELISA: Histone H3 [Dimethyl Lys79] Antibody [NBP2-59151] - To determine the titer, an ELISA was performed using a serial dilution of the antibody directed against H3K79me2. 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 1:4,500.





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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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