

Product Datasheet

Histone H3 [Dimethyl Lys79] Antibody - BSA Free NBP2-59194

Unit Size: 50 ug

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

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NBP2-59194

Histone H3 [Dimethyl Lys79] 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

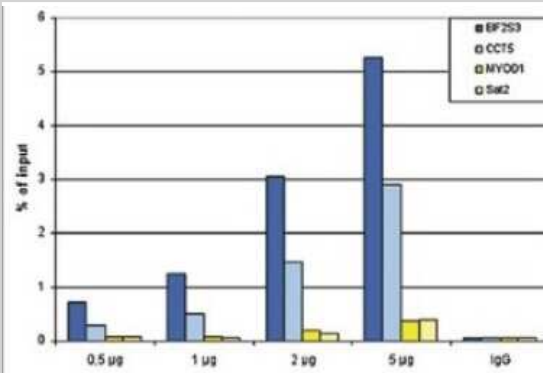
Product Description	
Description	Novus Biologicals Rabbit Histone H3 [Dimethyl Lys79] Antibody - BSA Free (NBP2-59194) is a polyclonal antibody validated for use in WB, ELISA and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human
Immunogen	The exact sequence of the immunogen to this Histone H3 [Dimethyl Lys79] antibody is proprietary.

Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing, Single Cell Western
Recommended Dilutions	Western Blot 1:200, ELISA 1:500, Dot Blot 1:5000, Chromatin Immunoprecipitation (ChIP) 1-2 ug/IP, Single Cell Western 100 ug/ml, Chromatin Immunoprecipitation Sequencing

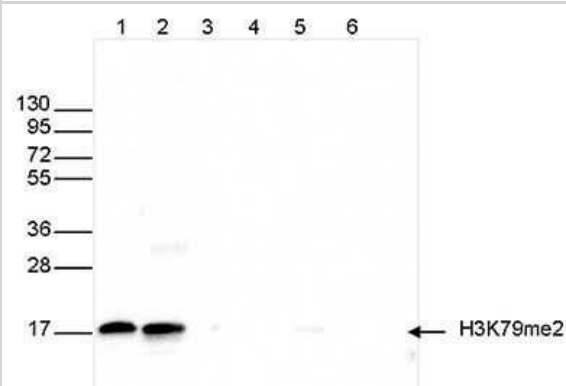


Images

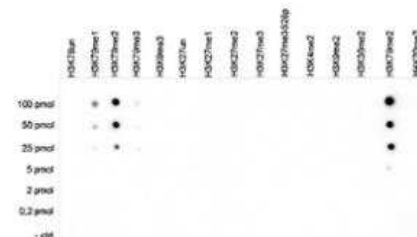
Chromatin Immunoprecipitation: Histone H3 [Dimethyl Lys79] Antibody [NBP2-59194] - ChIP assays were performed using human HeLa cells, the antibody against H3K79me2 and optimized PCR primer pairs for qPCR. ChIP was performed using sheared chromatin from 1 million cells. A titration consisting of 0.5, 1, 2 and 5 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 specific for the coding regions of the active EIF2S3 and CCT5 genes, used as positive controls, and for the inactive MYOD1 gene and the Sat2 satellite repeat, 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).



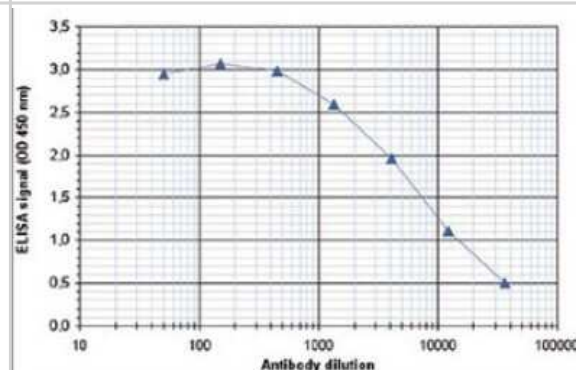
Western Blot: Histone H3 [Dimethyl Lys79] Antibody [NBP2-59194] - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H3K79me2 diluted 1:200 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~17 kDa.



Dot Blot: Histone H3 [Dimethyl Lys79] Antibody [NBP2-59194] - Analysis was performed to test the cross reactivity of the Diagenode antibody against H3K79me2 with peptides containing other modifications and unmodified sequences of histone H3. One hundred to 0.2 pmol of peptide containing the respective histone modification were spotted on a membrane. The antibody was used at a dilution of 1:5,000. Figure 4 shows a high specificity of the antibody for the modification of interest.



ELISA: Histone H3 [Dimethyl Lys79] Antibody [NBP2-59194] - To determine the titer of the antibody, 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 1:6,600.





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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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