

Product Datasheet

Histone H3 [ac Lys18, Dimethyl Arg17] Antibody - BSA Free NBP2-59217

Unit Size: 50 ug

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

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NBP2-59217

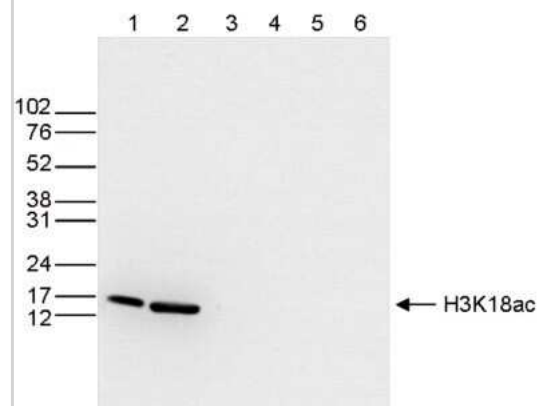
Histone H3 [ac Lys18, Dimethyl Arg17] Antibody - BSA Free

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 [ac Lys18, Dimethyl Arg17] Antibody - BSA Free (NBP2-59217) is a polyclonal antibody validated for use in WB, ELISA, ICC/IF and CHIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human, Mouse
Immunogen	The exact sequence of the immunogen to this Histone H3 [ac Lys18, Dimethyl Arg17] antibody is proprietary.
Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:500, ELISA 1:100, Immunocytochemistry/ Immunofluorescence 1:200, Dot Blot 1:5000, Chromatin Immunoprecipitation (ChIP) 1 ug/IP, Chromatin Immunoprecipitation Sequencing

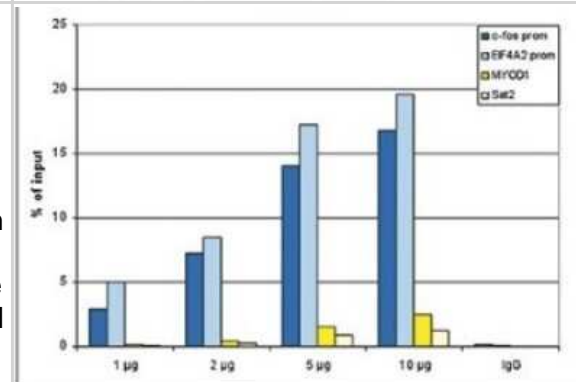


Images

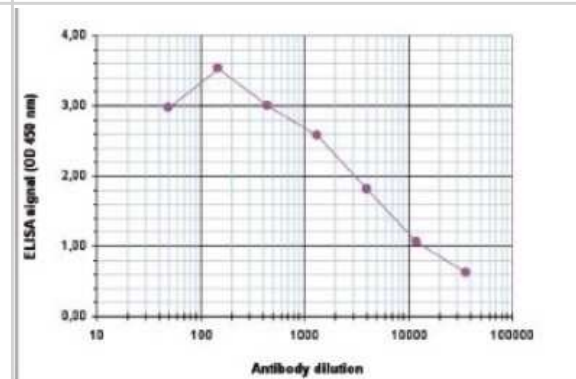
Western Blot: Histone H3 [ac Lys18, Dimethyl Arg17] Antibody [NBP2-59217] - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H3K18ac. The antibody was diluted 1:500 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~15 kDa.



Chromatin Immunoprecipitation: Histone H3 [ac Lys18, Dimethyl Arg17] Antibody [NBP2-59217] - ChIP assays were performed using human HeLa cells, treated with TSA, the antibody against H3K18ac and optimized PCR primer pairs for qPCR. ChIP was performed using sheared chromatin from 1,000,000 cells. A titration consisting of 1, 2, 5 and 10 ug of antibody per ChIP experiment was analyzed. IgG (2 ug/IP) was used as a negative IP control. Quantitative PCR was performed with primers for the promoters of the active EIF4A2 and c-fos 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).



ELISA: Histone H3 [ac Lys18, Dimethyl Arg17] Antibody [NBP2-59217] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody against H3K18ac. 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 1:4,300.



Immunofluorescence: Histone H3 [ac Lys18, Dimethyl Arg17] Antibody [NBP2-59217] - HeLa cells were stained with the antibody against H3K18ac 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 labeled with the H3K18ac antibody (left) diluted 1:200 in blocking solution followed by an anti-rabbit antibody conjugated to Alexa Fluor 488. The middle panel shows staining of the nuclei with DAPI. A merge of the two stainings is shown on the right.





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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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