

Product Datasheet

Histone H3 [ac Lys18] Antibody - BSA Free NBP2-59218

Unit Size: 50 ug

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

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NBP2-59218

Histone H3 [ac Lys18] Antibody - BSA Free

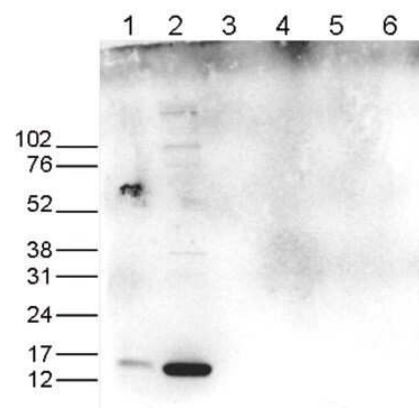
Product Information	
Unit Size	50 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide and 0.05% ProClin 300
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	15 kDa

Product Description	
Description	Novus Biologicals Rabbit Histone H3 [ac Lys18] Antibody - BSA Free (NBP2-59218) 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] antibody is proprietary.

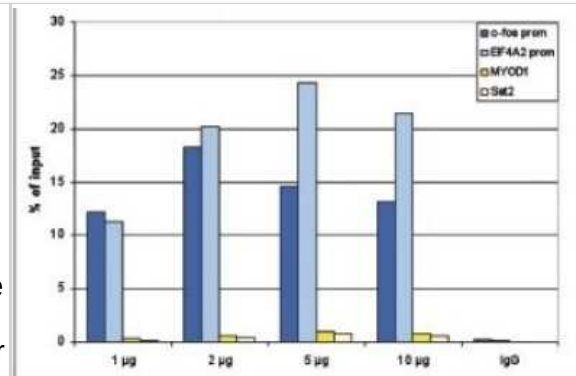
Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:1000, ELISA 1:1000, Immunocytochemistry/ Immunofluorescence, Dot Blot 1:20000, Chromatin Immunoprecipitation (ChIP) 1 ug, Chromatin Immunoprecipitation Sequencing

Images

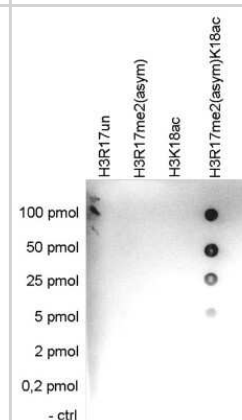
Western Blot: Histone H3 [ac Lys18] Antibody [NBP2-59218] - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H3R17me2(asym)K18ac. The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~15 kDa.



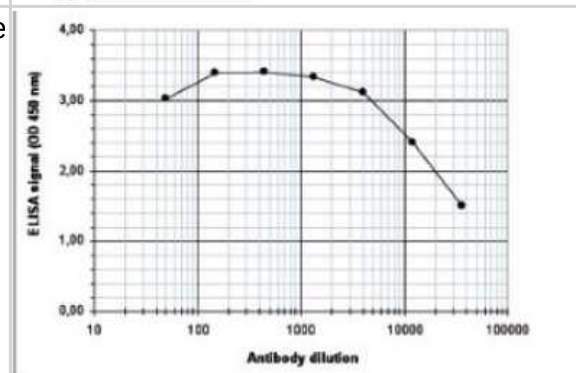
Chromatin Immunoprecipitation: Histone H3 [ac Lys18] Antibody [NBP2-59218] - ChIP assays were performed using human HeLa cells, the antibody against H3R17me2(asym)K18ac and optimized PCR primer pairs for qPCR. ChIP was performed using sheared chromatin from 1,000,000 cells. A titration consisting of 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).



Dot Blot: Histone H3 [ac Lys18] Antibody [NBP2-59218] - To test the cross reactivity of the antibody against H3R17me2(asym)K18ac, a Dot Blot analysis was performed with peptides containing other histone modifications and the unmodified H3R17K18. One hundred to 0.2 pmol of the respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:20,000. Figure shows a high specificity of the antibody for the modification of interest.



ELISA: Histone H3 [ac Lys18] Antibody [NBP2-59218] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody against H3R17me2(asym) K18ac. 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 1:28,800.



Immunofluorescence: Histone H3 [ac Lys18] Antibody [NBP2-59218] - Mouse NIH3T3 cells were stained with the antibody against H3R17me2(asym)K18ac and with DAPI. Cells were fixed with 4% formaldehyde for 10 minutes and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H3R17me2(asym)K18ac antibody (left) diluted 1:500 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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Products Related to NBP2-59218

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB21-1164PEP	Histone H3 [ac Lys23] 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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