

Product Datasheet

Histone H3 [ac Lys27] Antibody - BSA Free NBP2-54615

Unit Size: 50 ug

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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Publications: 2

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NBP2-54615

Histone H3 [ac Lys27] Antibody - BSA Free

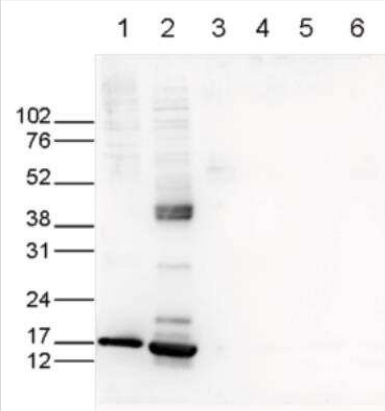
Product Information	
Unit Size	50 ug
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide and 0.05% ProClin 300
Isotype	IgG
Purity	Affinity purified
Buffer	PBS
Target Molecular Weight	15 kDa

Product Description	
Description	Novus Biologicals Rabbit Histone H3 [ac Lys27] Antibody - BSA Free (NBP2-54615) is a polyclonal antibody validated for use in WB, ELISA, ICC/IF and ChIP. Anti-Histone H3 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human, Mouse, Rat, A. thaliana
Immunogen	This Histone H3 [Trimethyl Lys4] antibody was developed against H3K4Me3

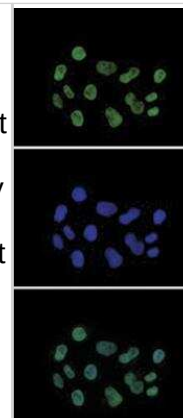
Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Protein Array, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:1000, ELISA 1:500, Immunocytochemistry/ Immunofluorescence 1:500, Dot Blot 1:20000, Protein Array, Chromatin Immunoprecipitation (ChIP) 1 ug/IP, Chromatin Immunoprecipitation Sequencing

Images

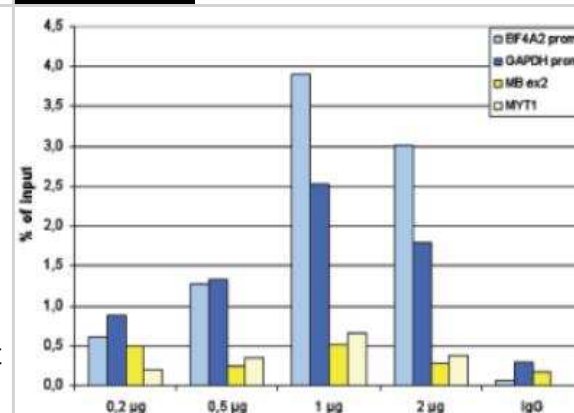
Western Blot: Histone H3 [ac Lys27] Antibody [NBP2-54615] - Histone 3 [Acetylated Lys27] [ac Lys27] Antibody [NBP2-54615] - Western Blot: Histone 3 [Acetylated Lys27] [ac Lys27] Antibody [NBP2-54615] - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from 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 H3K27ac. The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~16 kDa.



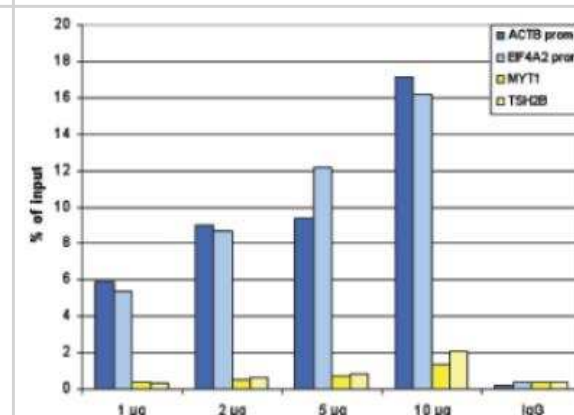
Immunocytochemistry/Immunofluorescence: Histone H3 [ac Lys27] Antibody [NBP2-54615] - HeLa cells were stained with the antibody against H3K27ac and with DAPI. Cells were fixed with 4% formaldehyde for 10 minutes and blocked with PBS/ TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H3K27ac antibody (top) 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 at the bottom.



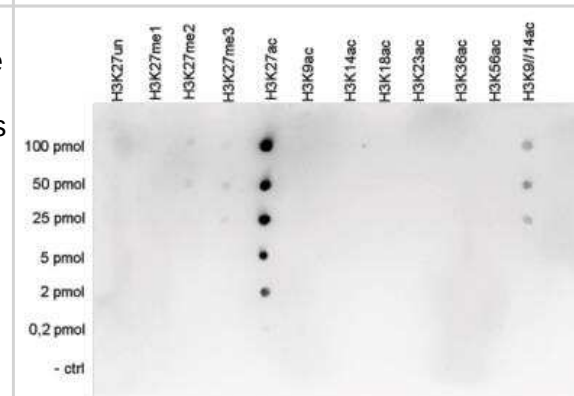
Chromatin Immunoprecipitation: Histone H3 [ac Lys27] Antibody [NBP2-54615] - ChIP assays were performed using human K562 cells, the antibody against H3K27ac and optimized PCR primer pairs for qPCR. ChIP was performed using sheared chromatin from 100,000 cells. A titration consisting of 0.2, 0.5, 1 and 2 μ g of antibody per ChIP experiment was analyzed. IgG (1 μ g/IP) was used as a negative IP control. Quantitative PCR was performed with primers for the promoters of the active GAPDH and EIF4A2 genes, used as positive controls, and for the coding regions of the inactive MB and MYT1 genes, used as negative controls. Figure 1 shows the recovery, expressed as a % of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis)



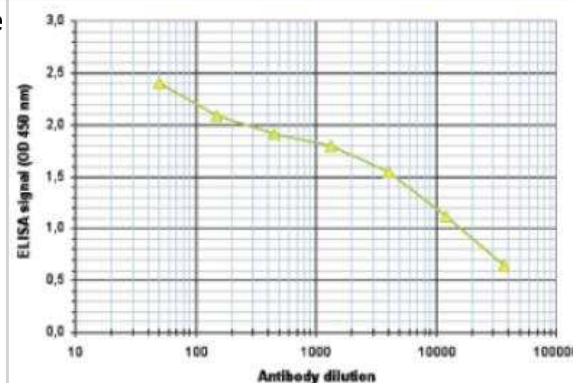
Chromatin Immunoprecipitation: Histone H3 [ac Lys27] Antibody [NBP2-54615] - ChIP assays were performed using human HeLa cells, the antibody against H3K27ac and optimized PCR primer pairs for qPCR. ChIP was performed using sheared chromatin from 1,000,000 cells. A titration consisting of 1, 2, 5 and 10 μ g of antibody per ChIP experiment was analyzed. IgG (2 μ g/IP) was used as a negative IP control. Quantitative PCR was performed with primers for the promoters of the active EIF4A2 and ACTB genes, used as positive controls, and for the inactive TSH2B and MYT1 genes, used as negative controls.



Dot Blot: Histone H3 [ac Lys27] Antibody [NBP2-54615] - Histone 3 [Acetylated Lys27] [ac Lys27] Antibody [NBP2-54615] - Dot Blot: Histone 3 [Acetylated Lys27] [ac Lys27] Antibody [NBP2-54615] - To test the cross reactivity of the antibody against H3K27ac, a Dot Blot analysis was performed with peptides containing other histone modifications and the unmodified H3K27. 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 Lys27] Antibody [NBP2-54615] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody against H3K27ac. 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 1:8,300.



Publications

Haiquan Lu, Yajing Lyu, Linh Tran, Jie Lan, Yangyiran Xie, Yongkang Yang, Naveena L Murugan, Yueyang J Wang, Gregg L Semenza HIF-1 recruits NANOG as a coactivator for TERT gene transcription in hypoxic breast cancer stem cells. *Cell reports* 2022-02-10 [PMID: 34592152]

Shen Y, Zhao H, Zhang L Et Al. The roles of DNA methylation and hydroxymethylation at short interspersed nuclear elements in the hypothalamic arcuate nucleus during puberty *Molecular Therapy - Nucleic Acids* 2021-07-01 [PMID: 34513307] (Chemotaxis)



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Products Related to NBP2-54615

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB21-1251PEP	Histone H3 [Monomethyl Lys36] Antibody Blocking Peptide

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