

Product Datasheet

Histone H2A.Z [ac Lys7, ac Lys11, ac Lys4] Antibody - BSA Free NBP2-54619

Unit Size: 50 ug

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

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NBP2-54619

Histone H2A.Z [ac Lys7, ac Lys11, ac Lys4] 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	Affinity purified
Buffer	PBS

Product Description

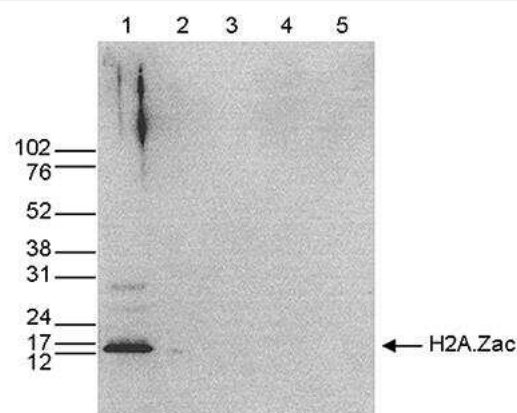
Description	Novus Biologicals Rabbit Histone H2A.Z [ac Lys7, ac Lys11, ac Lys4] Antibody - BSA Free (NBP2-54619) is a polyclonal antibody validated for use in WB, ELISA, ICC/IF and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	3015
Gene Symbol	H2AZ1
Species	Human, Mouse
Immunogen	H2A.Zac

Product Application Details

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

Images

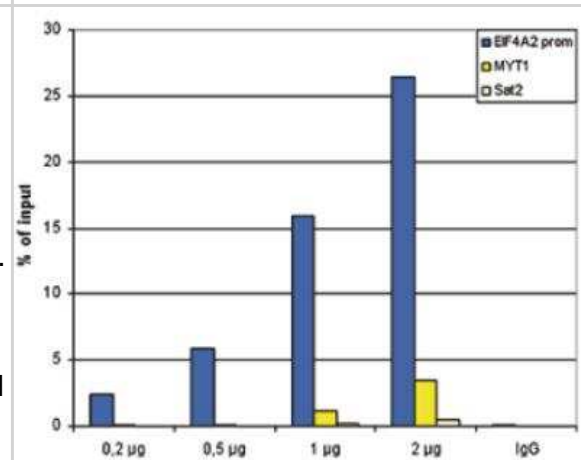
Western Blot: Histone H2A.Z [ac Lys7, ac Lys11, ac Lys4] Antibody [NBP2-54619] - H2AZ [ac Lys4, ac Lys7, ac Lys11] Antibody [NBP2-54619] - Western blot was performed on whole cell extracts (25 ug, lane 1) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 2, 3, 4 and 5, respectively) using the antibody against H2A.Zac. The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. The position of the protein of interest is indicated on the right, the marker (in kDa) is shown on the left.



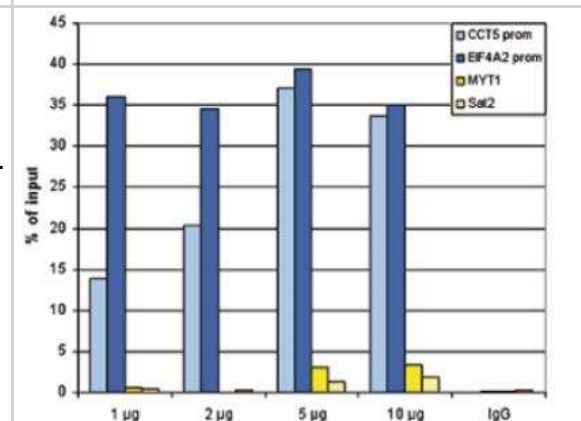
Immunocytochemistry/Immunofluorescence: Histone H2A.Z [ac Lys7, ac Lys11, ac Lys4] Antibody [NBP2-54619] - H2AZ [ac Lys4, ac Lys7, ac Lys11] Antibody [NBP2-54619] - HeLa cells were stained with the antibody against H2A.Zac and with DAPI. Cells were fixed with 4% formaldehyde for 10' and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H2AZac antibody (left) 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 on the right.



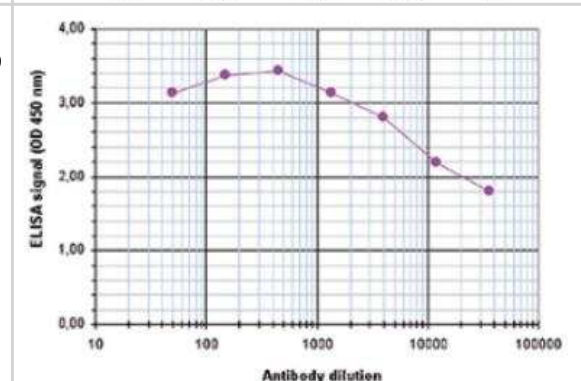
Chromatin Immunoprecipitation: Histone H2A.Z [ac Lys7, ac Lys11, ac Lys4] Antibody [NBP2-54619] - H2AZ [ac Lys7, ac Lys11, ac Lys4] Antibody [NBP2-54619] - H2AZ [ac Lys4, ac Lys7, ac Lys11] Antibody [NBP2-54619] - ChIP assays were performed using human K562 cells, the antibody against H2AZac and optimized PCR primer sets for qPCR. ChIP was performed using sheared chromatin from 100,000 cells. A titration of the antibody consisting of 0.2, 0.5, 1 and 2 ug per ChIP experiment was analysed. IgG (1 ug/IP) was used as negative IP control. Quantitative PCR was performed with primers specific for the promoter of the active genes CCT5 and EIF4A2, used as positive controls, and for the coding region of the inactive MYT1 gene and the Sat2 satellite repeat, used as negative controls. Figure shows the recovery, expressed as a percent of input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis)



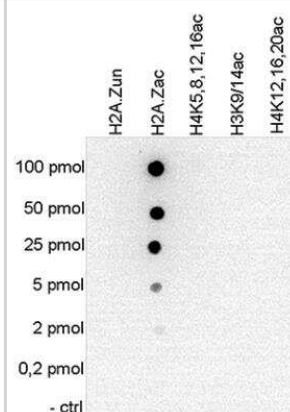
Chromatin Immunoprecipitation: Histone H2A.Z [ac Lys7, ac Lys11, ac Lys4] Antibody [NBP2-54619] - H2AZ [ac Lys7, ac Lys11, ac Lys4] Antibody [NBP2-54619] - H2AZ [ac Lys4, ac Lys7, ac Lys11] Antibody [NBP2-54619] - ChIP assays were performed using human HeLa cells, the antibody against H2A.Zac and optimized 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.



ELISA: Histone H2A.Z [ac Lys7, ac Lys11, ac Lys4] Antibody [NBP2-54619] - H2AZ [ac Lys4, ac Lys7, ac Lys11] Antibody [NBP2-54619] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody against H2A.Zac. The antigen used was a peptide containing the histone modifications of interest. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:56,600.



Dot Blot: Histone H2A.Z [ac Lys7, ac Lys11, ac Lys4] Antibody [NBP2-54619] - H2AZ [ac Lys4, ac Lys7, ac Lys11] Antibody [NBP2-54619] - To test the cross reactivity of the antibody against H2A.Zac, a Dot Blot analysis was performed with peptides containing different multiple acetylations and the unmodified H2A.Z. 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.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-54619

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-51625-0.05mg	Recombinant Human Histone H2A.Z His Protein

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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