Product Datasheet

Histone H2A.Z Antibody - BSA Free

NBP2-54618

Unit Size: 50 ug

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

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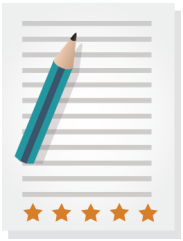
Updated 9/9/2025 v.20.1



NBP2-54618

Histone H2A.Z 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

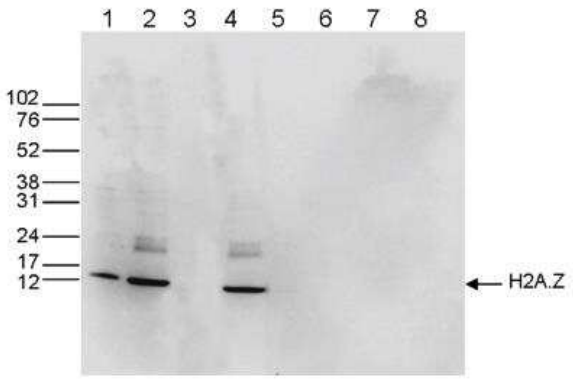
Description	Novus Biologicals Rabbit Histone H2A.Z Antibody - BSA Free (NBP2-54618) is a polyclonal antibody validated for use in WB, ELISA, ICC/IF and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	3015
Gene Symbol	H2AZ1
Species	Human, Mouse
Immunogen	H2A.Z

Product Application Details

Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:1000, ELISA 1:5000, Immunocytochemistry/ Immunofluorescence 1:500, Chromatin Immunoprecipitation (ChIP) 0.5-1 ug/IP, Chromatin Immunoprecipitation Sequencing

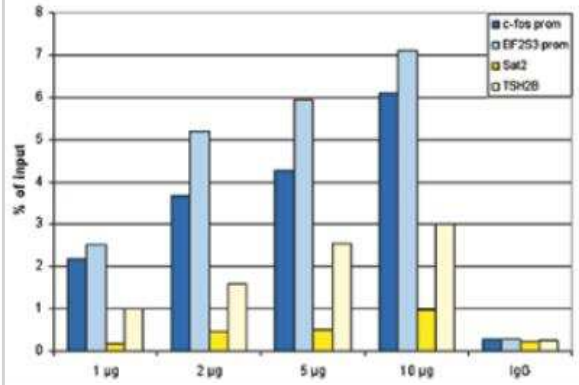
Images

Western Blot: H2AZ Antibody [NBP2-54618] - 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 5, 6, 7 and 8, respectively) using the antibody against H2A.Z. The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Alternatively, Western blot was performed on histone extracts after incubation of the antibody with 1 ug of the peptide used for immunisation of the rabbit (1 hour at room temperature) (lane 3) or with a peptide containing a sequence from the central part of the H2A.Z protein (lane 4). The position of the protein of interest is indicated on the right, the marker (in kDa) is shown on the left.

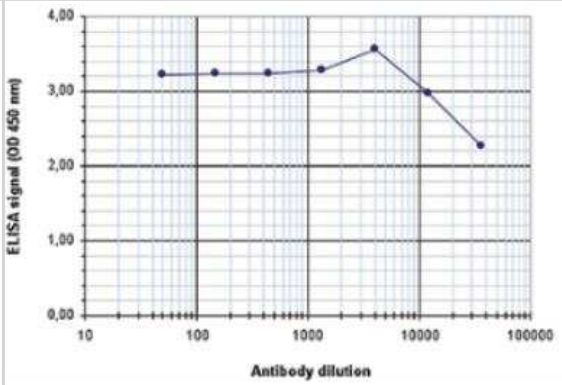


Chromatin Immunoprecipitation: H2AZ Antibody [NBP2-54618] - ChIP assays were performed using human K562 cells, the antibody against H2A.Z and optimized PCR primer sets for qPCR. ChIP was performed with sheared chromatin from 100,000 cells. A titration of the antibody consisting of 0.2, 0.5, 1 and 2ug 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 c-fos and EIF2S3, used as positive controls, and for the coding region of the inactive MB 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).

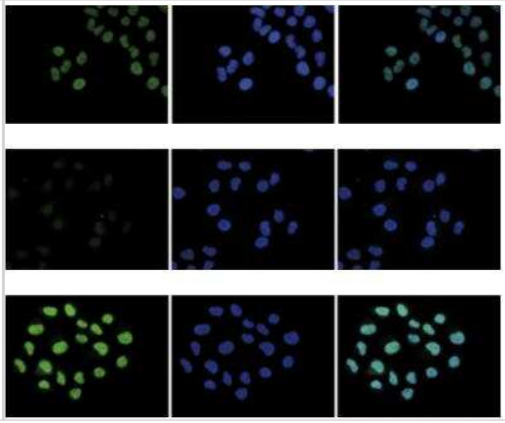
Chromatin Immunoprecipitation: H2AZ Antibody [NBP2-54618] - ChIP assays were performed using human HeLa cells, the antibody against H2A.Z and optimized PCR primer pairs for qPCR. ChIP was performed using sheared chromatin from 1,000,000 cells. A titration consisting of 1, 2, 5 and 10 ug of antibody per ChIP experiment was analyzed. IgG (2 ug/IP) was used as a negative IP control. Quantitative PCR was performed with primers specific for the promoter of the active genes c-fos and EIF2S3, used as positive controls, and for the inactive TSH2B gene and the Sat2 satellite repeat, used as negative controls.



ELISA: H2AZ Antibody [NBP2-54618] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody against H2A.Z. 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 1:87,500.



Immunofluorescence: H2AZ Antibody [NBP2-54618] - HeLa cells were stained with the antibody against H2A.Z. 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. Top Figure: cells were immunofluorescently labeled with the H2A.Z 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. Middle Figure and lower Figure: staining of the cells with the H2A.Z antibody after incubation of the antibody with 10 ng/ul of the peptide used for immunisation of the rabbit (middle Figure) and with a peptide containing a sequence from the central part of the H2A.Z protein (lower Figure).



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Products Related to NBP2-54618

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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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