

# Product Datasheet

## Histone H2B [ac Lys15] Antibody - BSA Free NBP2-59272

Unit Size: 50 ug

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

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**NBP2-59272**

Histone H2B [ac Lys15] 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

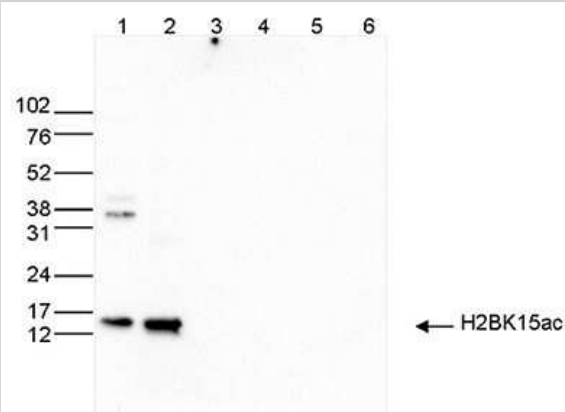
Product Description	
Description	Novus Biologicals Rabbit Histone H2B [ac Lys15] Antibody - BSA Free (NBP2-59272) is a polyclonal antibody validated for use in WB, ELISA, ICC/IF and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	440689
Gene Symbol	H2BC18
Species	Human
Immunogen	The exact immunogen is proprietary information.

Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
Recommended Dilutions	Western Blot 1:500, ELISA 1:1000, Immunocytochemistry/ Immunofluorescence 1:500, Dot Blot 1:20000, Chromatin Immunoprecipitation (ChIP) 2 ug, Chromatin Immunoprecipitation Sequencing



## Images

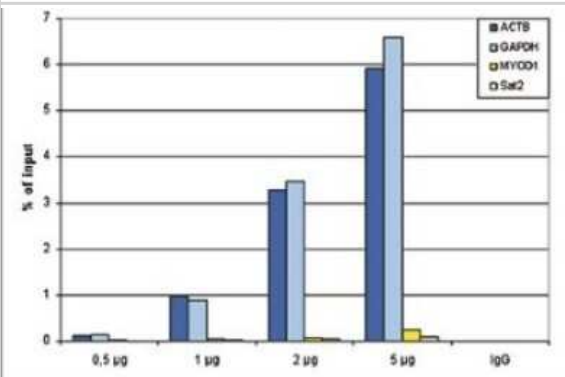
**Western Blot: Histone H2B [ac Lys15] Antibody [NBP2-59272]** - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H2BK15ac. The antibody was diluted 1:500 in TBS-Tween containing 5% skimmed milk. The marker (kDa) is shown on the left.



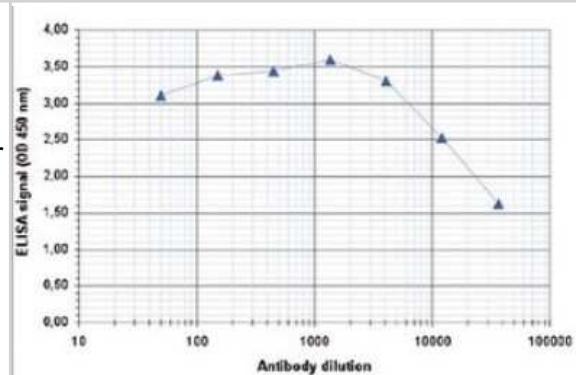
**Immunocytochemistry/Immunofluorescence: Histone H2B [ac Lys15] Antibody [NBP2-59272]** - HeLa cells were stained with the antibody against H2BK15ac and with DAPI. Cells were fixed with 4% formaldehyde for 10' and blocked with PBS/ TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H2BK15ac 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.



**Chromatin Immunoprecipitation: Histone H2B [ac Lys15] Antibody [NBP2-59272]** - ChIP assays were performed using human HeLa cells, the antibody against H2BK15ac and optimized PCR primer sets for qPCR. ChIP was performed using sheared chromatin from 1.5 million cells. A titration of the antibody consisting of 0.5, 1, 2 and, 5 ug per ChIP experiment was analysed. IgG (1 ug/IP) was used as negative IP control. QPCR was performed with primers for a region approximately 1 kb upstream of the GAPDH and ACTB promoters, used as positive controls, and for the coding region of 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 H2B [ac Lys15] Antibody [NBP2-59272]** - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H2BK15ac in antigen coated wells. 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 1:29,700.





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### **Products Related to NBP2-59272**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **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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