

# Product Datasheet

## Histone H2B [ac Lys12] Antibody - BSA Free NBP2-59271

Unit Size: 50 ug

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

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**NBP2-59271**

Histone H2B [ac Lys12] 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                                                                                         |

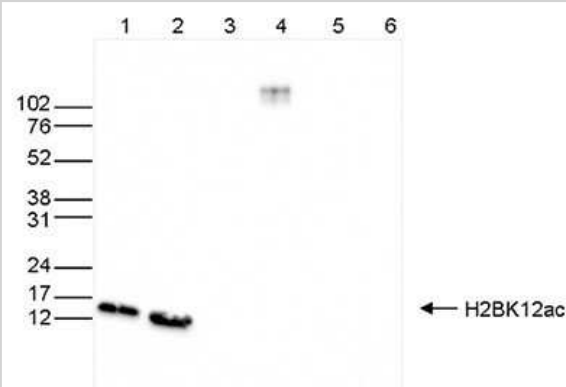
| Product Description |                                                                                                                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description         | Novus Biologicals Rabbit Histone H2B [ac Lys12] Antibody - BSA Free (NBP2-59271) 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 1:1000, ELISA 1:1000, Immunocytochemistry/ Immunofluorescence, Dot Blot 1:5000, Chromatin Immunoprecipitation (ChIP) 0.5-1 ug, Chromatin Immunoprecipitation Sequencing |

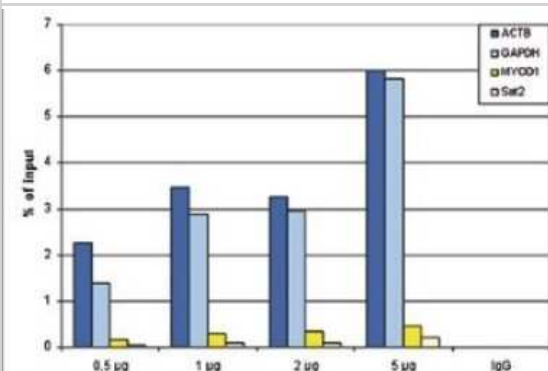


## Images

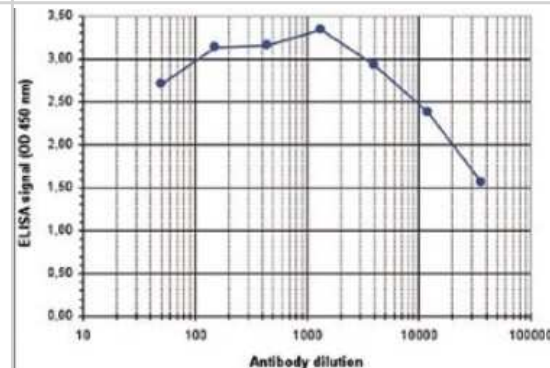
**Western Blot: Histone H2B [ac Lys12] Antibody [NBP2-59271] - Histone H2B Antibody [NBP2-59271]** - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H2BK12ac. The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. The marker (kDa) is shown on the left.



**Chromatin Immunoprecipitation: Histone H2B [ac Lys12] Antibody [NBP2-59271] - Histone H2B Antibody [NBP2-59271]** - ChIP assays were performed using human HeLa cells, the antibody against H2BK12ac 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 Lys12] Antibody [NBP2-59271] - Histone H2B Antibody [NBP2-59271]** - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H2BK12ac 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 1:38,200.



**Immunofluorescence: Histone H2B [ac Lys12] Antibody [NBP2-59271] - Histone H2B Antibody [NBP2-59271]** - HeLa cells were stained with the antibody against H2BK12ac 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 H2BK12ac 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 NBP2-59271**

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|                  |                                                     |
|------------------|-----------------------------------------------------|
| HAF008           | Goat anti-Rabbit IgG Secondary Antibody [HRP]       |
| NB7160           | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891       | Rabbit IgG Isotype Control                          |
| NBP3-07913-200ug | Recombinant Human Histone H2B Protein               |

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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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