

Product Datasheet

Histone H4 [ac Lys5] Antibody - BSA Free NBP2-59254

Unit Size: 50 ug

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

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NBP2-59254

Histone H4 [ac Lys5] Antibody - BSA Free

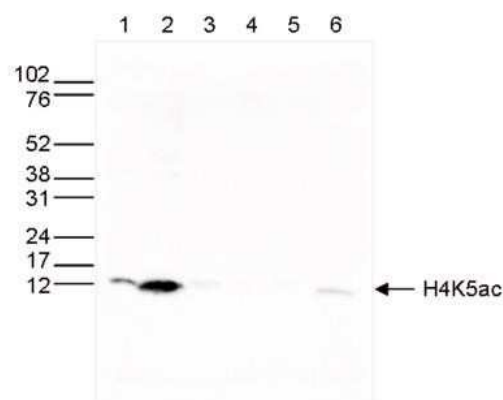
| Product Information | |
|---------------------|---|
| Unit Size | 50 ug |
| Concentration | Please see the vial label for concentration. If unlisted please contact technical services. |
| Storage | Store at -20C. Avoid freeze-thaw cycles. |
| Clonality | Polyclonal |
| Preservative | 0.05% Sodium Azide and 0.05% ProClin 300 |
| Isotype | IgG |
| Purity | Peptide affinity purified |
| Buffer | PBS |

| Product Description | |
|---------------------|--|
| Description | Novus Biologicals Rabbit Histone H4 [ac Lys5] Antibody - BSA Free (NBP2-59254) 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 | 121504 |
| Gene Symbol | H4C16 |
| Species | Human, Mouse |
| Immunogen | The exact immunogen is proprietary information. |

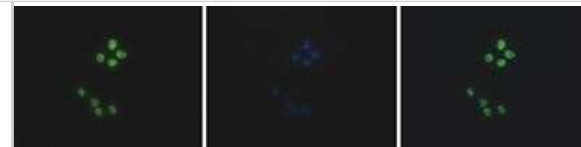
| Product Application Details | |
|-----------------------------|--|
| Applications | Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing |
| Recommended Dilutions | Western Blot 1:500, ELISA 1:100 - 1:500, Immunocytochemistry/ Immunofluorescence, Dot Blot 1:5000, Chromatin Immunoprecipitation (ChIP) 1-2 ug, Chromatin Immunoprecipitation Sequencing |

Images

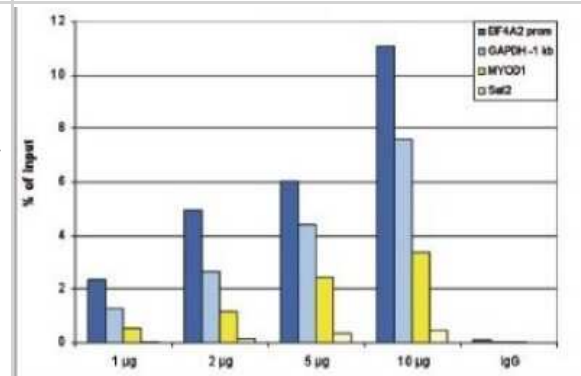
Western Blot: Histone H4 [ac Lys5] Antibody [NBP2-59254] - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H4K5ac. The antibody was diluted 1:500 in TBS-Tween containing 5% skimmed milk. The marker (kDa) is shown on the left.



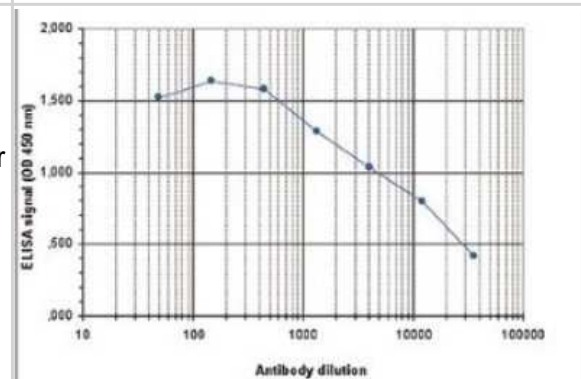
Immunocytochemistry/Immunofluorescence: Histone H4 [ac Lys5] Antibody [NBP2-59254] - HeLa cells were stained with the antibody against H4K5ac and with DAPI. Cells were fixed with 4% formaldehyde for 10 minutes and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labeled with the H4K5ac antibody (left) diluted 1:500 in blocking solution followed by an antirabbit 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.



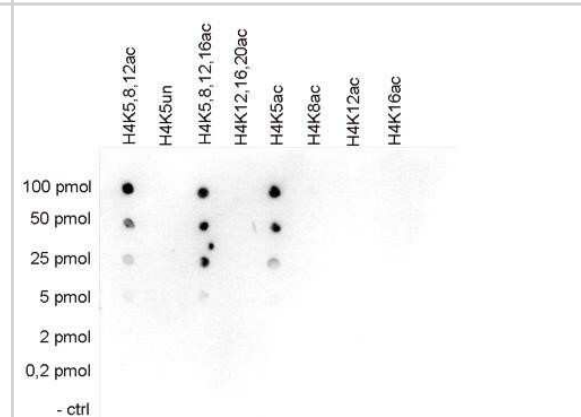
Chromatin Immunoprecipitation: Histone H4 [ac Lys5] Antibody [NBP2-59254] - ChIP assays were performed using human HeLa cells, the antibody against H4K5ac and optimized PCR primer sets for qPCR. ChIP was performed with a ChIP-seq kit on sheared chromatin from 1 million cells. A titration of the antibody consisting of 1, 2, 5 and 10 ug per ChIP experiment was analysed. IgG (2 ug/IP) was used as negative IP control. QPCR was performed with primers for promoter of the active gene EIF4A2 and for a region 1 kb upstream of the GAPDH gene, used as positive controls, and for the inactive MYOD1 gene and the Sat2 satellite repeat region 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 H4 [ac Lys5] Antibody [NBP2-59254] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H4K5ac 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 1:8,900.



Dot Blot: Histone H4 [ac Lys5] Antibody [NBP2-59254] - One hundred to 0.2 pmol of the respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:5,000. Figure shows a high specificity of the antibody for the modification of interest.





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| | |
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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 |

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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