

# Product Datasheet

## Histone H3 [ac Lys56] Antibody - BSA Free NBP2-59214

Unit Size: 50 ug

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

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Updated 9/9/2025 v.20.1

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**NBP2-59214**

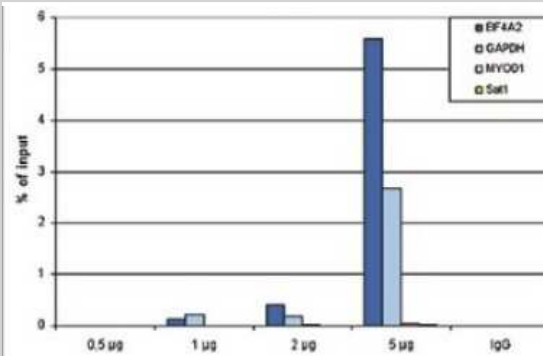
Histone H3 [ac Lys56] Antibody - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	50 ug
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide and 0.05% ProClin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Peptide affinity purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	15 kDa
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit Histone H3 [ac Lys56] Antibody - BSA Free (NBP2-59214) is a polyclonal antibody validated for use in WB, ELISA, ICC/IF and ChIP. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	126961
<b>Gene Symbol</b>	H3C14
<b>Species</b>	Human
<b>Immunogen</b>	The exact sequence of the immunogen to this Histone H3 [ac Lys56] antibody is proprietary.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing
<b>Recommended Dilutions</b>	Western Blot, ELISA 1:500, Immunocytochemistry/ Immunofluorescence, Dot Blot 1:20000, Chromatin Immunoprecipitation (ChIP) 5 ug/IP, Chromatin Immunoprecipitation Sequencing

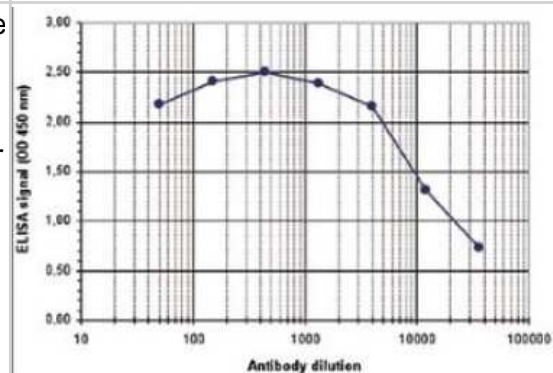


## Images

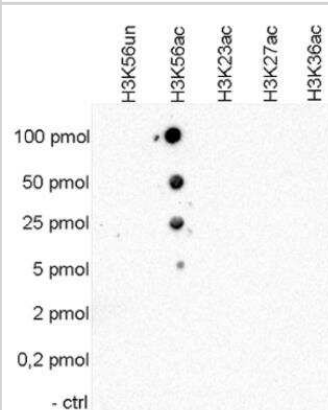
**Chromatin Immunoprecipitation: Histone H3 [ac Lys56] Antibody [NBP2-59214]** - CHIP assays were performed using human HeLa cells, the antibody against H3K56ac and optimized PCR primer sets for qPCR. CHIP was performed using sheared chromatin from 1.5 million cells. A titration of the antibody consisting of 0.5, 1, 2 and, 5  $\mu$ g per CHIP experiment was analysed. IgG (1  $\mu$ g/IP) was used as negative IP control. QPCR was performed with primers for a region approximately 1 kb upstream of the GAPDH promoter and for the EIF4A2 promoter, 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 H3 [ac Lys56] Antibody [NBP2-59214]** - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H3K56ac 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 1:15,300.



**Dot Blot: Histone H3 [ac Lys56] Antibody [NBP2-59214]** - To test the cross reactivity of the antibody against H3K56ac, a Dot Blot analysis was performed with peptides containing other histone modifications and the unmodified H3K56. 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.





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### **Products Related to NBP2-59214**

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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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