

Product Datasheet

Histone H3 [ac Lys14] Antibody

NBP2-59275

Unit Size: 50 ug

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

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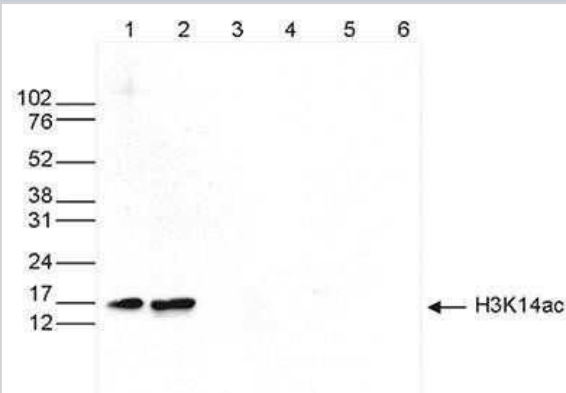
NBP2-59275**Histone H3 [ac Lys14] Antibody**

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
Target Molecular Weight	15 kDa
Product Description	
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human
Immunogen	The exact sequence of the immunogen to this Histone H3 [ac Lys14] antibody is proprietary.
Product Application Details	
Applications	Western Blot, Dot Blot, ELISA, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:1000, ELISA 1:1000 - 1:5000, Dot Blot 1:10000, Chromatin Immunoprecipitation (ChIP) 2 ug

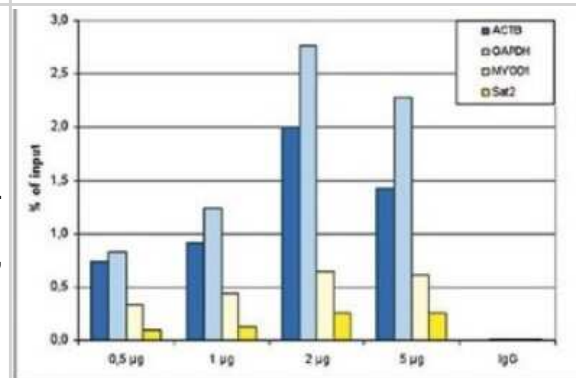


Images

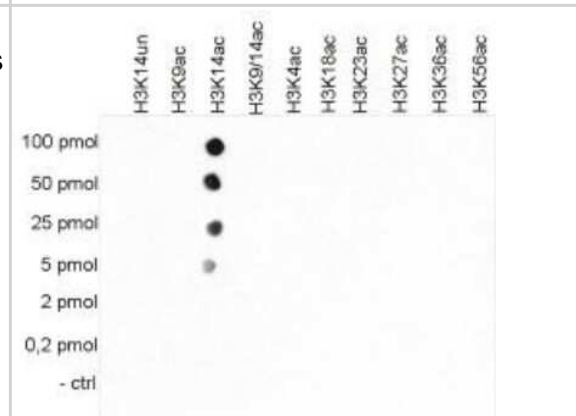
Western Blot: Histone H3 [ac Lys14] Antibody [NBP2-59275] - Western blot was performed on whole cell (25 ug, lane 1) and histone extracts (15 ug, lane 2) from HeLa cells, and on 1 ug of recombinant histone H2A, H2B, H3 and H4 (lane 3, 4, 5 and 6, respectively) using the antibody against H3K14ac. The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~17 kDa.



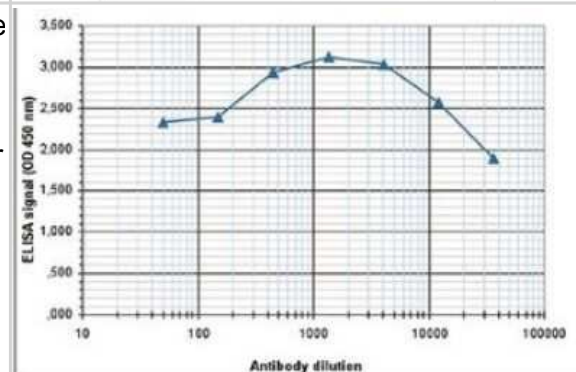
Chromatin Immunoprecipitation: Histone H3 [ac Lys14] Antibody [NBP2-59275] - ChIP assays were performed using human HeLa cells, the antibody against H3K14ac and optimized PCR primer sets for qPCR. ChIP was performed using sheared chromatin from 1.5 million cells. A titration of the antibody consisting 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 ACTB and GAPDH 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).



Dot Blot: Histone H3 [ac Lys14] Antibody [NBP2-59275] - To test the cross reactivity of the antibody against H3K14ac, a Dot Blot analysis was performed with peptides containing other histone modifications and the unmodified H3K14. One hundred to 0.2 pmol of the respective peptides were spotted on a membrane. The antibody was used at a dilution of 1:10,000. Figure shows a high specificity of the antibody for the modification of interest.



ELISA: Histone H3 [ac Lys14] Antibody [NBP2-59275] - To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody directed against H3K14ac 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 1:73,200.





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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB21-1164PEP	Histone H3 [ac Lys23] Antibody Blocking Peptide

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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