

# Product Datasheet

## Histone H3 [ac Lys9, p Ser10] Antibody NBP2-59163

Unit Size: 100 ul

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

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**NBP2-59163**

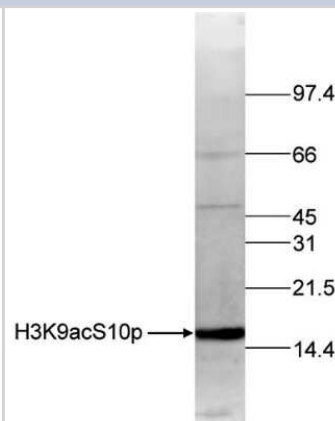
Histone H3 [ac Lys9, p Ser10] Antibody

<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<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
<b>Isotype</b>	IgG
<b>Purity</b>	Whole Antiserum
<b>Buffer</b>	Serum
<b>Target Molecular Weight</b>	15 kDa
<b>Product Description</b>	
<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 Lys9, p Ser10] antibody is proprietary.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Chromatin Immunoprecipitation, Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunofluorescence
<b>Recommended Dilutions</b>	Western Blot 1:250, Chromatin Immunoprecipitation 15 uL/IP, ELISA 1:1000 - 1:4000, Immunocytochemistry/ Immunofluorescence 1:500, Dot Blot 1:20000, Immunofluorescence 1:500

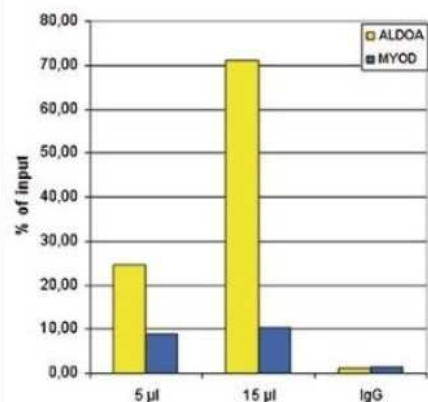


## Images

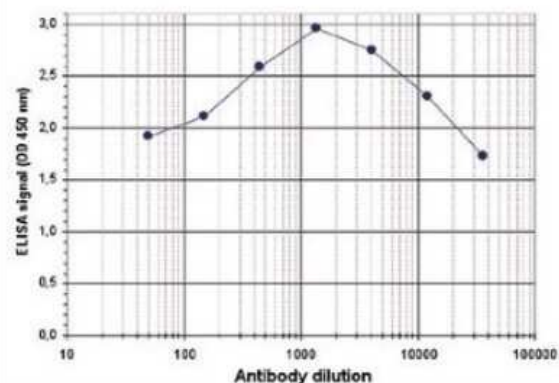
Western Blot: Histone H3 [ac Lys9, p Ser10] Antibody [NBP2-59163] - Histone extracts of HeLa cells (15 ug) were analysed by Western blot using the antibody against H3K9acS10p diluted 1:250 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~15 kDa.



Chromatin Immunoprecipitation: Histone H3 [ac Lys9, p Ser10] Antibody [NBP2-59163] - ChIP assays were performed using human osteosarcoma (U2OS) cells, the antibody against H3K9acS10p and optimized PCR primer sets for qPCR. Chromatin was sheared with a shearing ChIP kit. ChIP was performed using sheared chromatin from 1.5 million cells. A titration of the antibody consisting of 5 and 15 uL per ChIP experiment was analysed. IgG (5 ug/IP) was used as negative IP control. QPCR was performed with primers for the ALDOA (fructose-bisphosphate aldolase A) promoter and for the coding region of the myogenic differentiation gene (MYOD), a gene that is inactive at normal conditions. 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 Lys9, p Ser10] Antibody [NBP2-59163] - To determine the titer, an ELISA was performed using a serial dilution of the antibody against human H3K9acS10p. The antigen used was a peptide containing the histone modifications of interest. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:89,000.



Immunofluorescence: Histone H3 [ac Lys9, p Ser10] Antibody [NBP2-59163] - Immunofluorescence using the antibody directed against H3K9acS10p.





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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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