

# Product Datasheet

## Histone H3 Antibody (1B1B2)

### NBP2-59277

Unit Size: 50 ug

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

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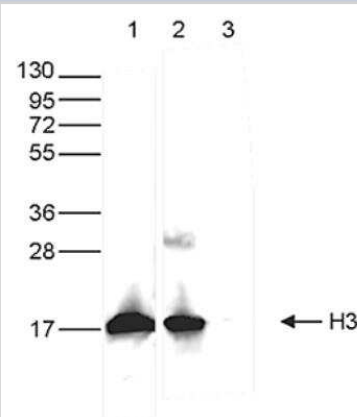
**NBP2-59277****Histone H3 Antibody (1B1B2)**

<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>	Monoclonal
<b>Clone</b>	1B1B2
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG3
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	15 kDa
<b>Product Description</b>	
<b>Description</b>	Monoclonal antibody raised in mouse against histone H3, using a KLH-conjugated synthetic peptide containing an unmodified sequence from the C-terminus of the protein. This antibody can be used as a loading control in both ChIP and WB experiments.
<b>Host</b>	Mouse
<b>Gene ID</b>	126961
<b>Gene Symbol</b>	H3C14
<b>Species</b>	Human, Mouse, Plant
<b>Reactivity Notes</b>	Maize, tomato, poplar
<b>Immunogen</b>	The exact sequence of the immunogen to this Histone H3 antibody (1B1B2) is proprietary.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/Immunofluorescence, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	Western Blot 1:1000 - 1:5000, Immunocytochemistry/Immunofluorescence 1:500, Chromatin Immunoprecipitation (ChIP) 1 ug

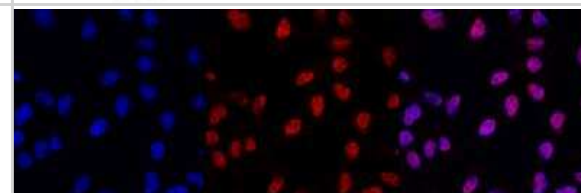


## Images

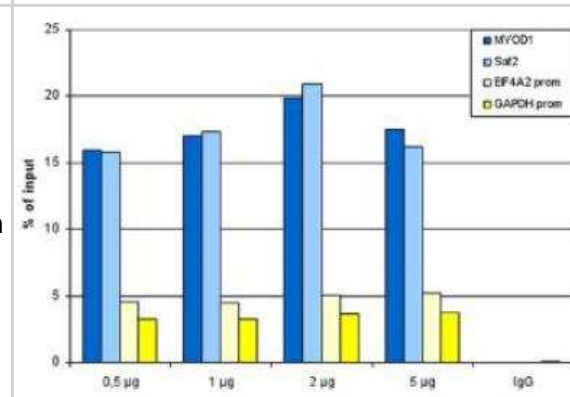
**Western Blot: Histone H3 Antibody (1B1B2) [NBP2-59277]** - Whole cell extracts from HeLa cells (40 ug, lane 1) and 1 ug of recombinant histone H3 and H4 (lane 2 and 3). The antibody was diluted 1:5000 in TBS-Tween containing 5% skim milk. Observed molecular weight is ~17 kDa.



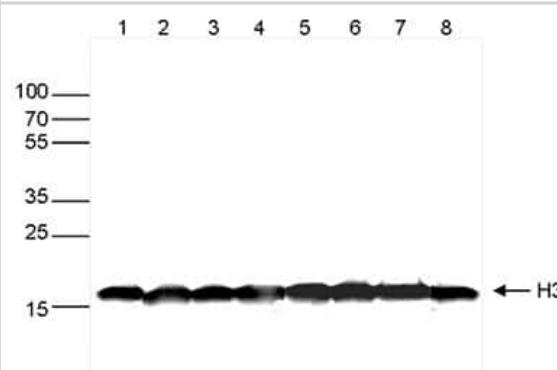
**Immunocytochemistry/Immunofluorescence: Histone H3 Antibody (1B1B2) [NBP2-59277]** - HeLa cells were stained with the monoclonal antibody against H3 and with DAPI. Cells were fixed with 4% formaldehyde for 10' and blocked with PBS/TX-100 containing 1% BSA. The cells were immunofluorescently labeled with the H3 antibody (middle) diluted 1:500 in blocking solution followed by an anti-mouse antibody conjugated to Alexa Fluor 594. The left panel shows staining of the nuclei with DAPI. A merge of the two stainings is shown on the right.



**Chromatin Immunoprecipitation: Histone H3 Antibody (1B1B2) [NBP2-59277]** - ChIP assays were performed using human HeLa cells, the monoclonal antibody against H3 and optimized PCR primer pairs for qPCR. ChIP was performed with a ChIP-seq kit for Histones, using sheared chromatin from 1 million cells. A titration consisting of 0.5, 1, 2 and 5 ug of antibody per ChIP experiment was analyzed. IgG (1 ug/IP) was used as a negative IP control. Quantitative PCR was performed with primers specific for the promoters of the active GAPDH and EIF4A2 genes, and for the inactive MYOD1 gene and the Sat2 satellite repeat. Figure shows the recovery, expressed as a %input (the relative amount of immunoprecipitated DNA compared to input DNA after qPCR analysis).



**Western Blot: Histone H3 Antibody (1B1B2) [NBP2-59277]** - Western blot was performed on whole cell extracts (30 ug) from different celltypes (lane 1: HeLa, lane 2: K562, lane 3: MCF7, lane 4: U2OS, lane 5: HepG2, lane 6: Jurkat, lane 7: NIH3T3, lane 8: E14Tg2a mouse ES cells) using the antibody against H3. The antibody was diluted 1:1,000 in TBS-Tween containing 5% skimmed milk. Observed molecular weight is ~17 kDa.





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### **Products Related to NBP2-59277**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96777	Mouse IgG3 Isotype Control (MG3)
NB21-1023PEP	Histone H3 [Trimethyl Lys4] 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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