

For Research Use Only

# HIST1H1B Polyclonal antibody

Catalog Number: 18093-1-AP



## Basic Information

<b>Catalog Number:</b> 18093-1-AP	<b>GenBank Accession Number:</b> BC101581	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 260 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3009	<b>Recommended Dilutions:</b> WB 1:5000-1:30000 IHC 1:50-1:500 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> histone cluster 1, H1b	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 226 aa, 23 kDa	
<b>Immunogen Catalog Number:</b> AG12818	<b>Observed MW:</b> 32 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Species Specificity:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : HeLa cells, HepG2 cells, LnCaP cells

IHC : mouse brain tissue, mouse colon tissue

IF : SH-SY5Y cells,

## Background Information

Histones are basic nuclear proteins responsible for nucleosome structure of the chromosomal fiber in eukaryotes. Histone Cluster 1 H1 Family Member B (HIST1H1B) is a member of the Histone H1/H5 protein family. HIST1H1B gene has been found to be frequently mutated in colorectal cancer and follicular lymphomas. HIST1H1B overexpression contributes to tumor aggressiveness. HIST1H1B expression is upregulated in breast cancer and predicts poor prognosis (PMID: 34746019).

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

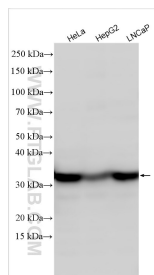
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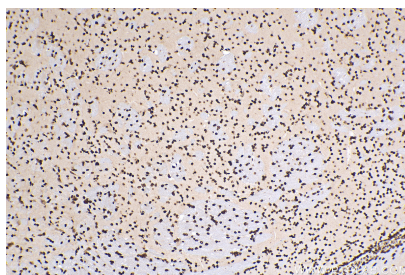
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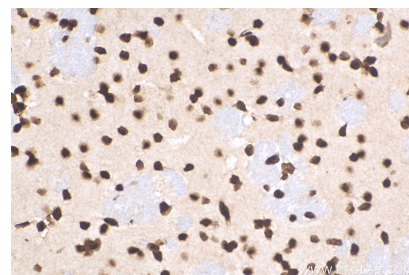
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 18093-1-AP (HIST1H1B antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18093-1-AP (HIST1H1B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18093-1-AP (HIST1H1B antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using HIST1H1B antibody (18093-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).