

For Research Use Only

# Histone H1.5 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 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3009	<b>Recommended Dilutions:</b> WB 1:5000-1:30000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P16401	<b>IHC 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Full Name:</b> histone cluster 1, H1b	<b>IF/ICC 1:50-1:500</b>
<b>Immunogen Catalog Number:</b> AG12818	<b>Calculated MW:</b> 226 aa, 23 kDa	
	<b>Observed MW:</b> 32 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, 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, human colon tissue, mouse colon tissue

**IF/ICC :** SH-SY5Y cells,

## Background Information

Histones are basic nuclear proteins responsible for nucleosome structure of the chromosomal fiber in eukaryotes. Histone H1.5, also known as Histone Cluster 1 H1 Family Member B (HIST1H1B), is a member of the Histone H1/H5 protein family. Histone H1.5 gene has been found to be frequently mutated in colorectal cancer and follicular lymphomas. HIST1H1B overexpression contributes to tumor aggressiveness. Histone H1.5 expression is upregulated in breast cancer and predicts poor prognosis(PMID: 34746019).

## Storage

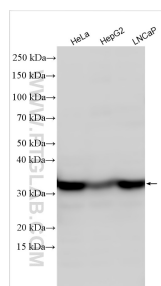
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

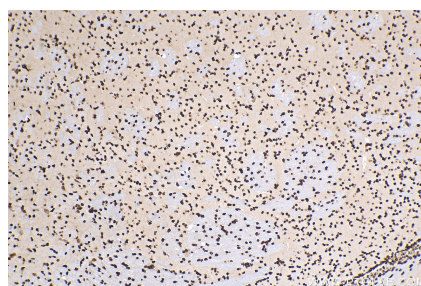
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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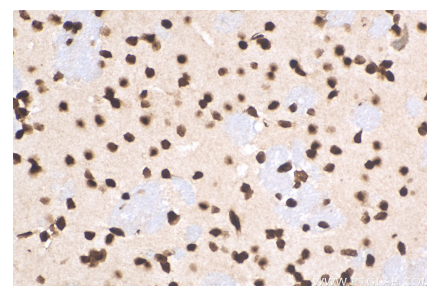
## Selected Validation Data



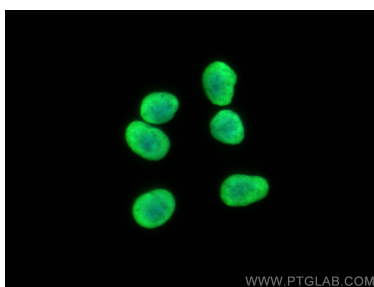
Various lysates were subjected to SDS PAGE followed by western blot with 18093-1-AP (Histone H1.5 antibody) at dilution of 1:30000 incubated at room temperature for 1.5 hours.



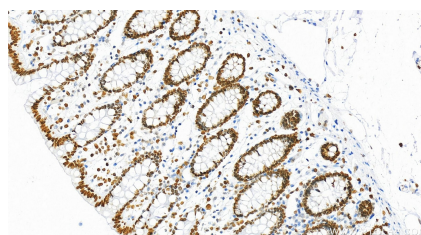
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18093-1-AP (Histone H1.5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 18093-1-AP (Histone H1.5 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 Histone H1.5 antibody (18093-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human normal colon slide using 18093-1-AP (Histone H1.5 antibody) at dilution of 1:6000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).