

For Research Use Only

Histone H2B Polyclonal antibody

Catalog Number:33612-1-AP



Basic Information

Catalog Number: 33612-1-AP	GenBank Accession Number: NM_021063.3	Purification Method: Antigen affinity Purification
Size: 150ul , Concentration: 330 µg/ml by Nanodrop;	GeneID (NCBI): 3017	Recommended Dilutions: WB: 1:1000-1:4000 IHC: 1:200-1:800
Source: Rabbit	UNIPROT ID: P58876	
Isotype: IgG	Full Name: histone cluster 1, H2bd	
Immunogen Catalog Number: AG38954	Calculated MW: 14kDa 126aa	
	Observed MW: 16 kDa	

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, mouse, rat

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 : HEK-293 cells, HSC-T6 cells, HeLa cells, NIH/3T3 cells

IHC : mouse brain tissue,

Background Information

Histone H2B is a core component of the nucleosome, the fundamental unit of chromatin. It forms a dimer with Histone H2A, and two H2A-H2B dimers combine with a (H3-H4)₂ tetramer to create the histone octamer. The primary function of this structure is to package DNA into a compact and manageable form. However, H2B is also subject to various post-translational modifications (PTMs), such as ubiquitination, which serve as epigenetic marks to regulate gene expression by altering chromatin accessibility.

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

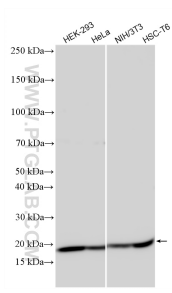
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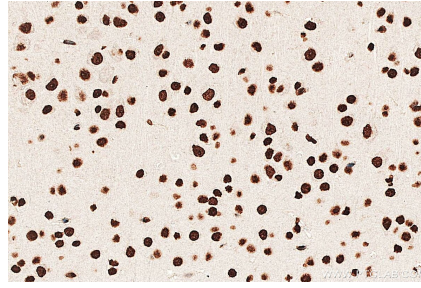
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 33612-1-AP (Histone H2B antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 33612-1-AP (Histone H2B antibody) at dilution of 1:400 (under 40x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).