

For Research Use Only

Histone H2B Monoclonal antibody, PBS Only



Catalog Number: 68393-1-PBS

Basic Information

Catalog Number: 68393-1-PBS	GenBank Accession Number: BC005827	Purification Method: Protein G purification
Size: 100ug , Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 8349	CloneNo.: 1E12G3
Source: Mouse	UNIPROT ID: Q16778	
Isotype: IgG1	Full Name: histone cluster 2, H2be	
	Calculated MW: 14 kDa	
	Observed MW: 14-17 kDa	

Applications

Tested Applications:
Indirect ELISA, IF/ICC, IHC, WB

Species Specificity:
zebrafish, chicken, rat, mouse, human

Background Information

Histones are nuclear proteins that are classified into five major protein groups: histones H2A, H2B, H3, and H4 are known as the core histones. Post-translationally modified H2B proteins can modulate the nucleosome/ chromatin structure or DNA accessibility to affect the transcriptional pathways linked to embryonic development and cell differentiation. Monoubiquitination of histone H2B has emerged as an important chromatin modification with roles not only in transcription but also in cell differentiation, DNA repair or mRNA processing(PMID: 25027370).

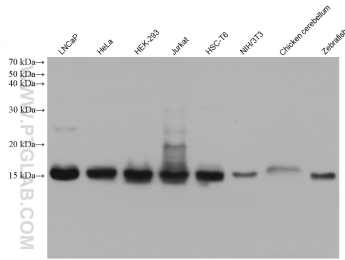
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

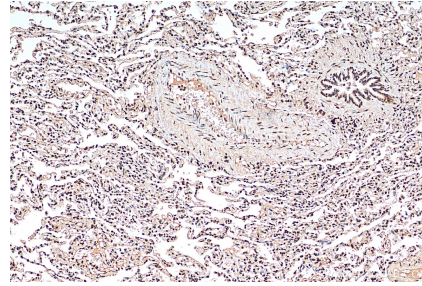
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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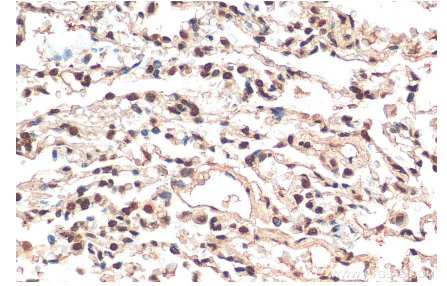
Selected Validation Data



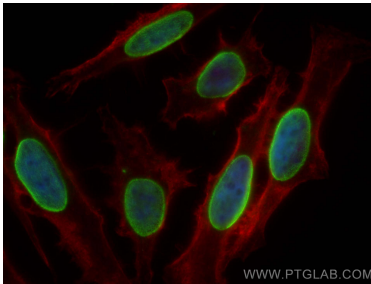
Various lysates were subjected to SDS PAGE followed by western blot with 68393-1-Ig (Histone H2B antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68393-1-PBS in a different storage buffer formulation.



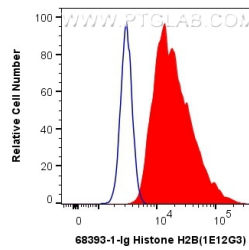
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 68393-1-Ig (Histone H2B antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68393-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 68393-1-Ig (Histone H2B antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 68393-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Histone H2B antibody (68393-1-Ig, Clone: 1E12G3) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 68393-1-PBS in a different storage buffer formulation.



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human Histone H2B (68393-1-Ig, Clone:1E12G3) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 68393-1-PBS in a