

For Research Use Only

Histone H3 Recombinant antibody, PBS Only

Catalog Number: 81984-2-PBS



Basic Information

Catalog Number:	81984-2-PBS	GenBank Accession Number:	BC015544	Purification Method:	Protein A purification
Concentration:	1 mg/ml	GeneID (NCBI):	333932	CloneNo.:	241079B2
Source:	Rabbit	UNIPROT ID:	Q71DI3		
Isotype:	IgG	Full Name:	histone cluster 2, H3a		
Immunogen Catalog Number:	AG10644	Calculated MW:	136 aa, 15 kDa		
		Observed MW:	15-17 kDa		

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

Histone-H3, histone cluster 2, H3a is the core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machinery which requires DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. Histone-H3 is expressed during S phase; then expression strongly decreases as cell division slows down during the process of differentiation.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:

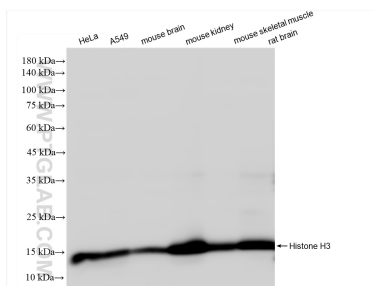
T: 4006900926

E: Proteintech-CN@ptglab.com

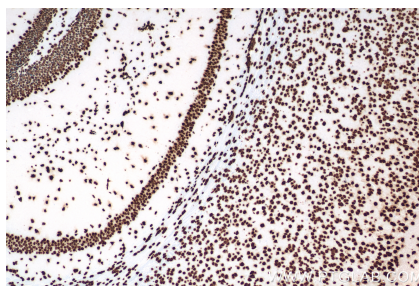
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

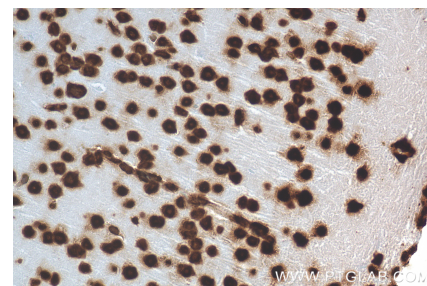
Selected Validation Data



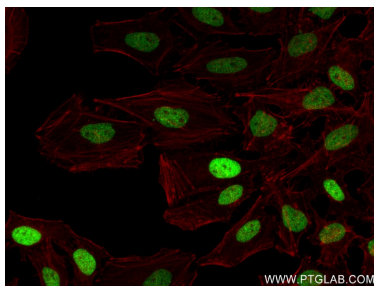
Various lysates were subjected to SDS PAGE followed by western blot with 81984-2-RR (Histone H3 antibody) at dilution of 1:25000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81984-2-PBS in a different storage buffer formulation.



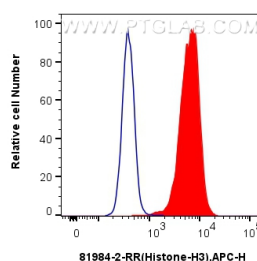
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 81984-2-RR (Histone H3 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81984-2-PBS in a different storage buffer formulation.



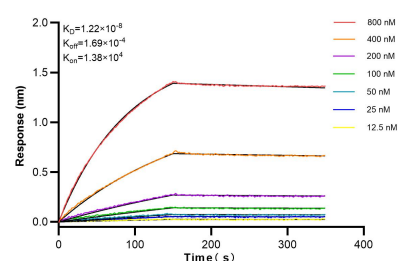
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 81984-2-RR (Histone H3 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81984-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Histone H3 antibody (81984-2-RR, Clone: 241079B2) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 81984-2-PBS in a different storage buffer formulation.



1×10^6 HepG2 cells were intracellularly stained with 0.25 ug Histone H3 Recombinant antibody (81984-2-RR, Clone:241079B2) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 81984-2-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 81984-2-RR against Human Histone H3 were performed. The affinity constant is 12.2 nM.