For Research Use Only

## Histone H3 Recombinant antibody

Catalog Number:81984-2-RR

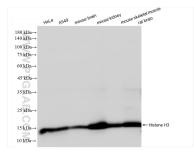


Basic Information	Catalog Number: 81984-2-RR	GenBank Accession Number BC015544	r: Purification Method: Protein A purfication
	Size: 100ul , Concentration: 1000 µg/ml by	GeneID (NCBI): 333932	CloneNo.: 24107982
	Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG10644	UNIPROT ID: Q71DI3 Full Name: histone cluster 2, H3a Calculated MW: 136 aa, 15 kDa Observed MW: 15 kDa	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:200-1:800
Applications	Tested Applications: WB, IF/ICC, FC (Intra), ELISA Species Specificity: human, mouse, rat	WB:	tive Controls: HeLa cells, A549 cells, mouse brain tissue, mouse ey tissue, mouse skeletal muscle tissue, rat brain ie
		IF/IC	CC : HeLa cells,
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 -20°C. Stable for one year after Storage Buffer: PBS with 0.02% sodium azide and 50°		
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ C s	torage	

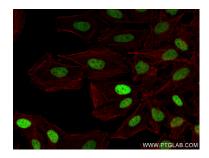
For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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

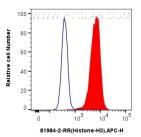
## Selected Validation Data



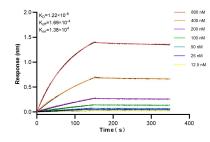
Various lysates were subjected to SDS PAGE followed by western blot with 81984-2-R (Histone H3 antibody) at dilution of 1:25000 incubated at room temperature for 1.5 hours.



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).



1x10^6 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.



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