

For Research Use Only

Histone H1.0 Recombinant antibody

Catalog Number:83993-1-RR



Basic Information

Catalog Number: 83993-1-RR	GenBank Accession Number: BC000145	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 3005	CloneNo.: 241147D2
Source: Rabbit	UNIPROT ID: P07305	Recommended Dilutions: WB 1:2000-1:10000
Isotype: IgG	Full Name: H1 histone family, member 0	
Immunogen Catalog Number: AG9982	Calculated MW: 21 kDa	
	Observed MW: 32 kDa	

Applications

Tested Applications:
WB, FC (Intra), ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : HeLa cells, NIH/3T3 cells, HEK-29 cells, A431 cells, C6 cells, mouse testis tissue, rat spleen tissue

Background Information

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. Linker histones are involved in forming higher order structure in chromatin and maintaining overall chromatin compaction. The H1FO histones are found in cells that are in terminal stages of differentiation or that have low rates of cell division. Histone H1.0 (H1F0, H1FV) is a linker histone that is widely expressed in many tissues and almost all vertebrates, unlike some other linker histones. The observed molecular weight of H1F0 is about 32 kDa.

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

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

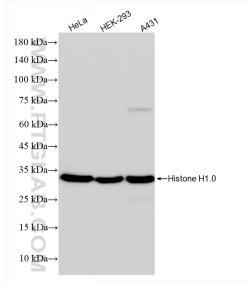
T: 4006900926

E: Proteintech-CN@ptglab.com

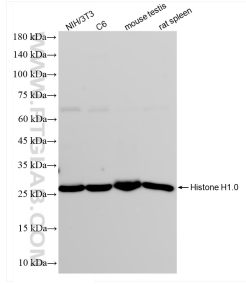
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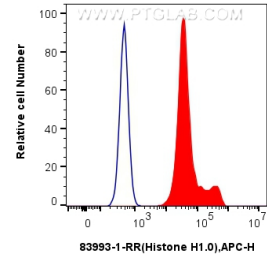
Selected Validation Data



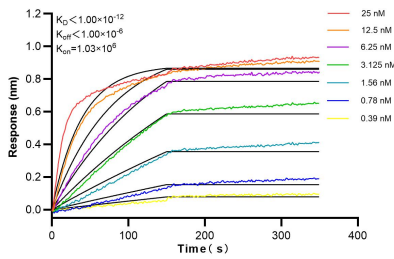
Various lysates were subjected to SDS PAGE followed by western blot with 83993-1-RR (Histone H1.0 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



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1×10^6 BxPC-3 cells were intracellularly stained with 0.25 μ g Histone H1.0 Recombinant antibody (83993-1-RR, Clone:241147D2) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLI) kinetic assays of 83993-1-RR against Human Histone H1.0 were performed. The affinity constant is below 1 pM.