

For Research Use Only

Di/Tri-Methyl-Histone H3 (Lys36) Recombinant monoclonal antibody

Catalog Number: 84329-6-RR



Basic Information

Catalog Number: 84329-6-RR	GenBank Accession Number: BC066245	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 8350	CloneNo.: 260309A7
Source: Rabbit	UNIPROT ID: P68431	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:500-1:2000 IF/ICC: 1:500-1:2000 Dot Blot: 1:500-1:2000
Isotype: IgG	Full Name: histone cluster 1, H3a	
	Observed MW: 15 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, Dot Blot, ELISA	Positive Controls: WB : HeLa cells, HEK-293 cells, MCF-7 cells, K-562 cells, NIH/3T3 cells, HSC-T6 cells, mouse liver tissue
Species Specificity: human, mouse, rat	IHC : human placenta tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IF/ICC : NIH/3T3 cells,
	Dot Blot : / / ,

Background Information

Histones are small, highly basic proteins that consist of a globular domain with unstructured N- and C-terminal tails protruding from the main structure. Histone H3 is one of the five main histones that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. In addition to their role in DNA compartmentalization, histones also play crucial roles in various biologic processes, including gene expression and regulation, DNA repair, chromatin condensation, cell cycle progression, chromosome segregation, and apoptosis. The ability of histones to regulate chromatin dynamics primarily originates from various posttranslational modifications carried out by histone-modifying enzymes.

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

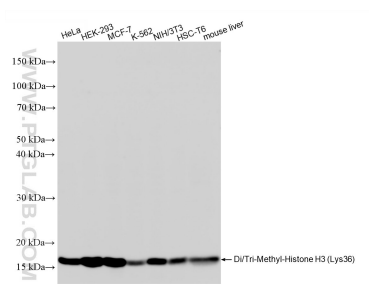
*** 20ul sizes contain 0.1% BSA

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

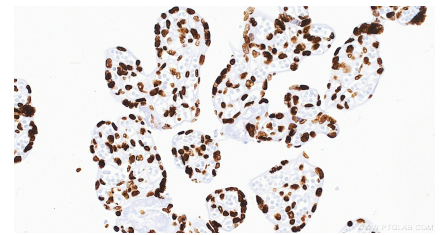
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Selected Validation Data

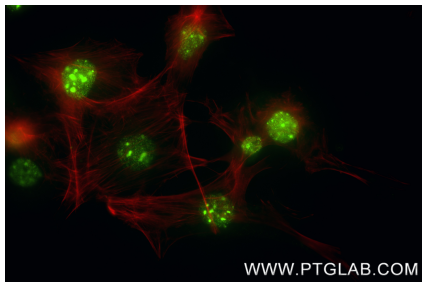
Dot blot analysis was used to confirm the specificity of 84329-6-RR Di/Tri-Methyl-Histone H3 (Lys36) antibody. peptides were spotted onto NC and probed with antibody at 1 µg/ml. The amount of peptide (µg/mL) spotted is indicated next to each row.



Various lysates were subjected to SDS PAGE followed by western blot with 84329-6-RR (Di/Tri-Methyl-Histone H3 (Lys36) antibody at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 84329-6-RR (Di/Tri-Methyl-Histone H3 (Lys36) antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using Di/Tri-Methyl-Histone H3 (Lys36) antibody (84329-6-RR, Clone: 260309A7) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).