For Research Use Only

Di/Tri-Methyl-Histone H3 (Lys36) Recombinant antibody, PBS Only

Catalog Number:84329-1-PBS

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Basic Information

Catalog Number:
84329-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC066245

GeneID (NCBI):
8350

UNIPROT ID:
P68431

Full Name:
histone cluster 1, H3a

Observed MW:
15 kDa

Purification Method:
Protein A purfication

CloneNo.:
241139G6

Applications

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

Species Specificity:
human, mouse, rat

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.

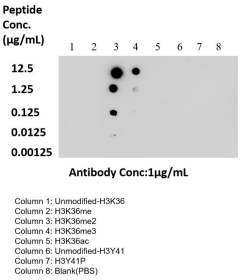
Storage

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

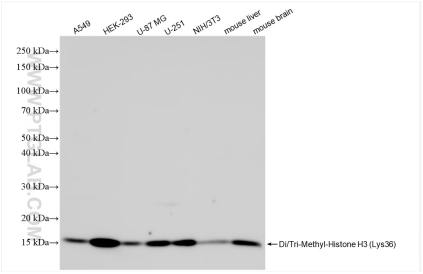
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

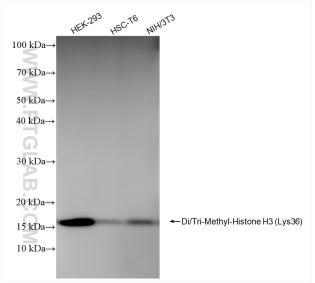
Selected Validation Data



Dot blot analysis was used to confirm the specificity of Di/Tri-Methyl-Histone H3 (Lys36) antibody. Acetylated 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. This data was developed using the same antibody clone with 84329-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 84329-1-RR (Di/Tri-Methyl-Histone H3 (Lys36) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84329-1-PBS in a different storage buffer formulation.



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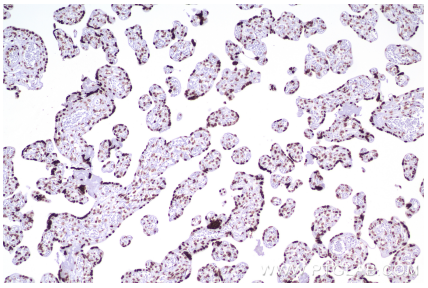
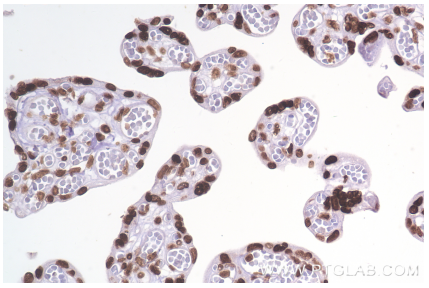


Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 84329-1-RR (Di/Tri-Methyl-Histone H3 (Lys36) antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84329-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 84329-1-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). This data was developed using the same antibody clone with 84329-1-PBS in a different storage buffer formulation.

Immunofluorescent analysis of (4% PFA) fixed HeLa cells using HIST1H3A antibody (84329-1-RR, Clone: 241139G6) 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 84329-1-PBS in a different storage buffer formulation.