For Research Use Only

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

Catalog Number:84329-1-RR

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Uni-rAb
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Basic Information

Catalog Number:
84329-1-RR

Size:
100ul , Concentration: 1000 μg/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

Recommended Dilutions:
WB 1:2000-1:10000
IHC 1:500-1:2000
IF/ICC 1:200-1:800

Applications

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

Species Specificity:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A549 cells, HEK-293 cells, U-87 MG cells, U-251 cells, NIH/3T3 cells, mouse liver tissue, mouse brain tissue, HSC-T6 cells

IHC : human placenta tissue,

IF/ICC : HeLa cells,

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.

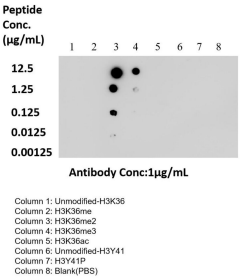
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol
Aliquoting is unnecessary for -20°C storage

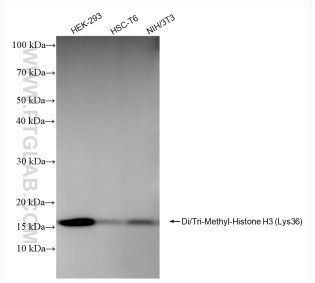
***** 20ul sizes contain 0.1% BSA**

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

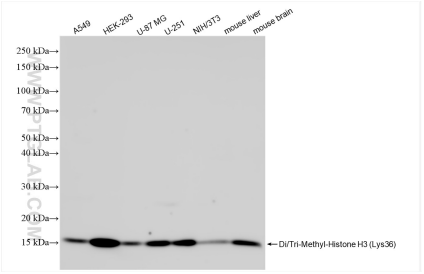
Selected Validation Data



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.



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.



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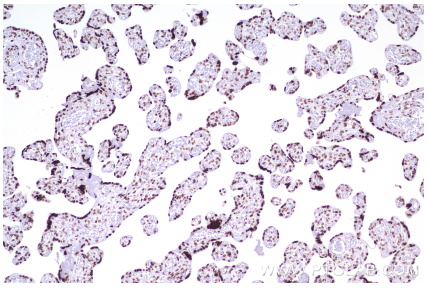
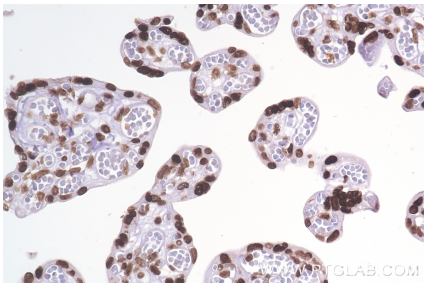


Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 84329-1-RR (Di/Tri-Methyl-Histone H3 (Lys36) antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).

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).