

For Research Use Only

Mono/Di-Methyl-Histone H3 (Lys4) Recombinant monoclonal antibody, PBS Only

Catalog Number: 84747-1-PBS



Basic Information

Catalog Number: 84747-1-PBS	GenBank Accession Number: BC066245	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 8350	CloneNo.: 241941D10
Isotype: IgG	UNIPROT ID: P68431	
	Full Name: histone cluster 1, H3a	
	Observed MW: 17 kDa	

Applications

Tested Applications:
WB, IF/ICC, FC (Intra), IP, Dot Blot, Indirect ELISA, ChIP-qPCR

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.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

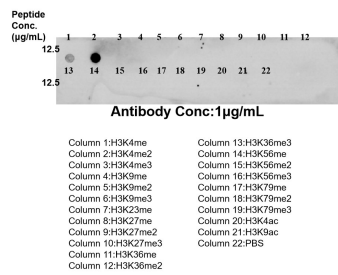
T: 4006900926

E: Proteintech-CN@ptglab.com

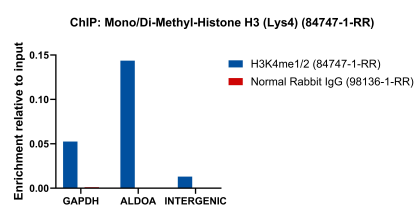
W: ptgcn.com

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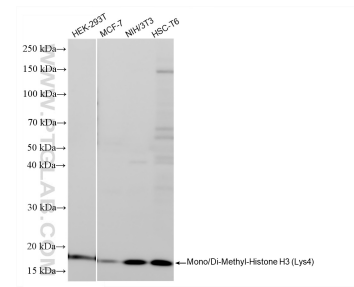
Selected Validation Data



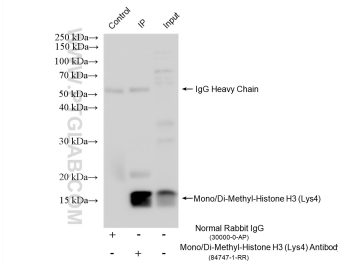
Dot blot analysis was used to confirm the specificity of 84747-1-RR Mono/Di-Methyl-Histone H3 (Lys4) antibody. peptides were spotted onto NC and probed with antibody at 1 µg/ml. The amount of peptide (µ g/ml) spotted is indicated next to each row. This data was developed using the same antibody clone with 84747-1-PBS in a different storage buffer formulation.



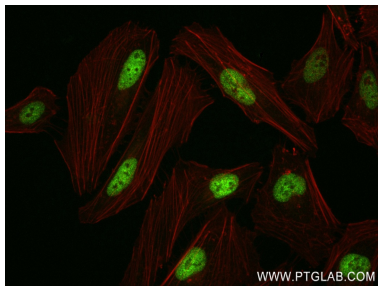
Chromatin was prepared from HEK-293T cells. Cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 15 µg of cross-linked chromatin, 5 µg of Mono/Di-Methyl-Histone H3 (Lys4) (84747-1-RR) or 5 µg of Normal Rabbit IgG (98136-1-RR), and 20 µl of Protein A Magarose Beads. The immunoprecipitated DNA was quantified by real-time PCR. This data was developed using the same antibody clone with 84747-1-PBS in a different storage buffer



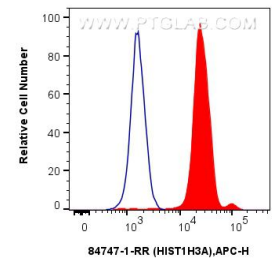
Various lysates were subjected to SDS PAGE followed by western blot with 84747-1-RR (Mono/Di-Methyl-Histone H3 (Lys4) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84747-1-PBS in a different storage buffer formulation.



IP result of anti-Mono/Di-Methyl-Histone H3 (Lys4) (IP:84747-1-RR, 4ug; Detection:84747-1-RR 1:500) with HeLa cells lysate 1320 ug. This data was developed using the same antibody clone with 84747-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Mono/Di-Methyl-Histone H3 (Lys4) antibody (84747-1-RR, Clone: 241941D10) 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 84747-1-PBS in a different storage buffer formulation.



1x10^6 HeLa cells were intracellularly stained with 0.25 ug Mono/Di-Methyl-Histone H3 (Lys4) Recombinant Antibody (84747-1-RR, Clone:241941D10) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone