

For Research Use Only

Di-Methyl-Histone H3 (Lys9) Recombinant monoclonal antibody

Catalog Number: 86990-2-RR



Basic Information

Catalog Number: 86990-2-RR	GenBank Accession Number: BC066245	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 8350	CloneNo.: 252046G7
Source: Rabbit	UNIPROT ID: P68431	Recommended Dilutions: WB: 1:2000-1:10000 IF/ICC: 1:1250-1:5000 Dot Blot: 1:10-1:100 ChIP-qPCR: 1:10-1:100
Isotype: IgG	Full Name: histone cluster 1, H3a	
	Observed MW: 15-17 kDa	

Applications

Tested Applications: WB, IF/ICC, Dot Blot, ELISA, ChIP-qPCR	Positive Controls: WB : HeLa cells, HEK-293T cells
Species Specificity: human	IF/ICC : HeLa cells, Dot Blot : / /, ChIP-qPCR : HeLa cells,

Background Information

H3K9me2 is a typical transcriptional repressive modification, primarily enriched in heterochromatin regions (such as centromeres, telomeres, and transposon elements), but can also be scattered throughout euchromatin. By recruiting "reader" proteins such as HP1 (Heterochromatin Protein 1), H3K9me2 can establish and stabilize a chromatin condensation state, thereby silencing gene expression.

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

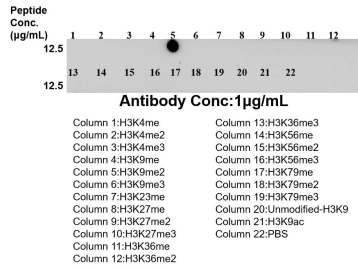
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

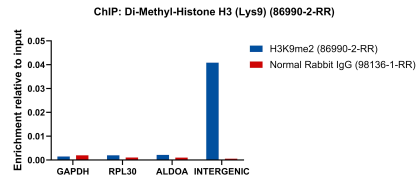
E: proteintech@ptglab.com
W: ptglab.com

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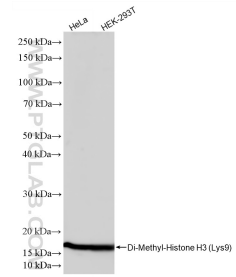
Selected Validation Data



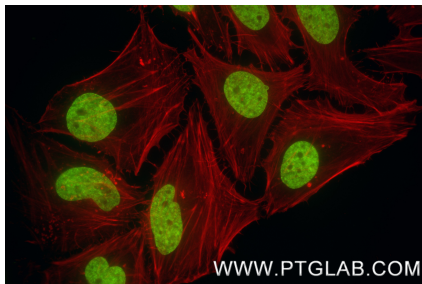
Dot blot analysis was used to confirm the specificity of 86990-2-RR Di-Methyl-Histone H3 (Lys9) antibody. peptides were spotted onto NC and probed with antibody at 1 µg/mL. The amount of peptide (µg/mL) spotted is indicated next to each row.



Chromatin was prepared from HeLa cells. Cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 15 µg of cross-linked chromatin, 5 µg of Di-Methyl-Histone H3 (Lys9) (86990-2-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.



Various lysates were subjected to SDS PAGE followed by western blot with 86990-2-RR (Di-Methyl-Histone H3 (Lys9) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Di-Methyl-Histone H3 (Lys9) antibody (86990-2-RR, Clone: 252046G7) at dilution of 1:2500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).