

For Research Use Only

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

Catalog Number:86990-2-RR



Basic Information

Catalog Number:

86990-2-RR

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC066245

GeneID (NCBI):

8350

UNIPROT ID:

P68431

Full Name:

histone cluster 1, H3a

Observed MW:

15-17 kDa

Purification Method:

Protein A purification

CloneNo.:

252046G7

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

Applications

Tested Applications:

WB, IF/ICC, Dot Blot, ELISA, ChIP-qPCR

Species Specificity:

human

Positive Controls:

WB : HeLa cells, HEK-293T cells

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

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

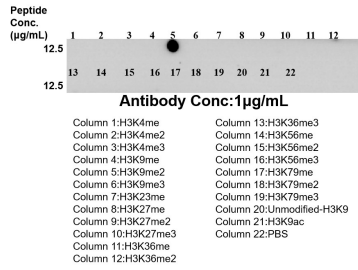
T: 4006900926

E: Proteintech-CN@ptglab.com

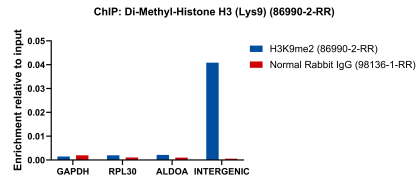
W: ptgcn.com

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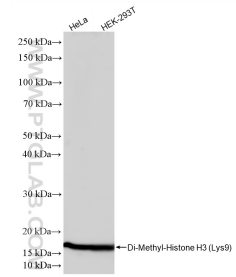
Selected Validation Data



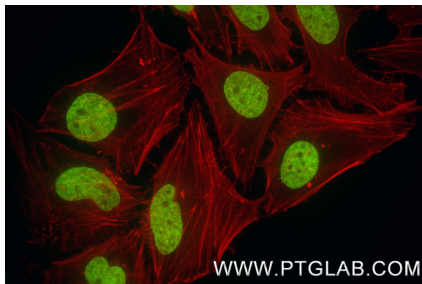
Dot blot analysis was used to confirm the specificity of 86990-2-RR Di-Methyl-Histone H3 (Lys9) antibody. peptides were spotted onto NC and probed with antibody at 1 µg/mL. The amount of peptide (µg/mL) spotted is indicated next to each row.



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).