

For Research Use Only

# Di-Methyl-Histone H3 (Lys9) Recombinant monoclonal antibody, PBS Only



Catalog Number: 86990-2-PBS

## Basic Information

<b>Catalog Number:</b> 86990-2-PBS	<b>GenBank Accession Number:</b> BC066245	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8350	<b>CloneNo.:</b> 252046G7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P68431	
<b>Isotype:</b> IgG	<b>Full Name:</b> histone cluster 1, H3a	
	<b>Observed MW:</b> 15-17 kDa	

## Applications

**Tested Applications:**  
WB, IF/ICC, Dot Blot, Indirect ELISA, ChIP-qPCR

**Species Specificity:**  
human

## 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 -80°C.

**Storage Buffer:**  
PBS only, pH7.3

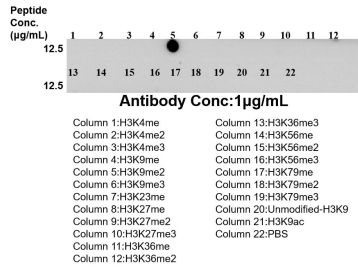
For technical support and original validation data for this product please contact:

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

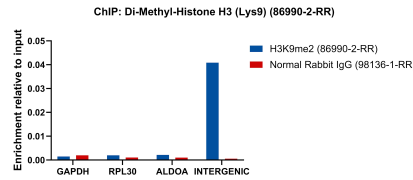
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

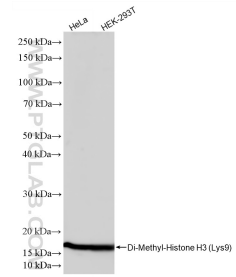
## Selected Validation Data



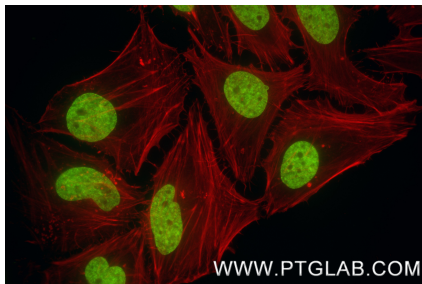
Dot blot analysis was used to confirm the specificity of 86990-2-RR Di-Methyl-Histone H3 (Lys9) antibody. peptides were spotted onto NC and probed with antibody at 1 µg/ml. The amount of peptide (µg/mL) spotted is indicated next to each row. This data was developed using the same antibody clone with 86990-2-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 86990-2-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 86990-2-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 86990-2-PBS in a different storage buffer formulation.