

For Research Use Only

# Tri-Methyl-Histone H3 (Lys27) Recombinant monoclonal antibody, PBS Only



Catalog Number: 86992-1-PBS

## Basic Information

<b>Catalog Number:</b> 86992-1-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> 252044D11
<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

H3K27me3 is a typical transcriptional repression marker that primarily silences key developmental genes through synergistic action with polycomb group proteins. In embryonic stem cells, many developmental regulatory genes are marked by H3K27me3 and remain silent; during cell differentiation, the H3K27me3 markers for specific genes are removed, thereby activating the corresponding developmental programs.

## Storage

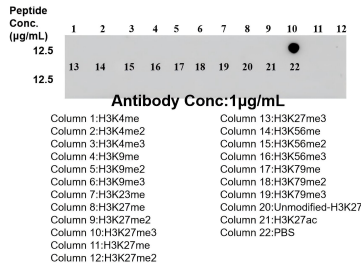
**Storage:**  
Store at -80°C.

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

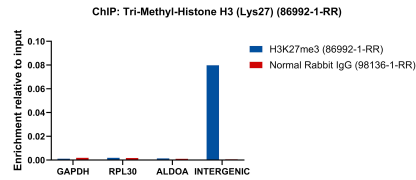
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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

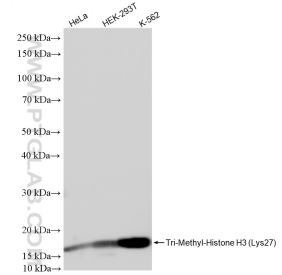
## Selected Validation Data



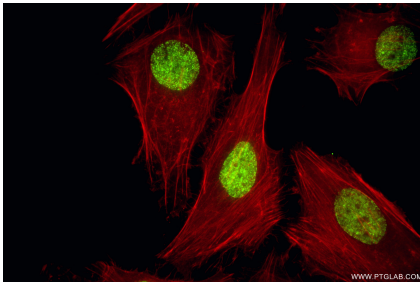
Dot blot analysis was used to confirm the specificity of 86992-1-RR Tri-Methyl-Histone H3 (Lys27) antibody. peptides were spotted onto NC and probed with antibody at 1 µg/mL. The amount of peptide (µg/mL) spotted is indicated next to each row. This data was developed using the same antibody clone with 86992-1-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 Tri-Methyl-Histone H3 (Lys27) (86992-1-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 86992-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 86992-1-RR (Tri-Methyl-Histone H3 (Lys27) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86992-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Tri-Methyl-Histone H3 (Lys27) antibody (86992-1-RR, Clone: 252044D11) at dilution of 1:1000 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 86992-1-PBS in a different storage buffer formulation.