

For Research Use Only

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

Catalog Number: 86992-1-RR **3 Publications**



## Basic Information

<b>Catalog Number:</b> 86992-1-RR	<b>GenBank Accession Number:</b> BC066245	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 8350	<b>CloneNo.:</b> 252044D11
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P68431	<b>Recommended Dilutions:</b> WB: 1:2000-1:10000 IF/ICC: 1:500-1:2000 Dot Blot: 1:10-1:100 ChIP-qPCR: 1:10-1:100
	<b>Full Name:</b> histone cluster 1, H3a	
	<b>Observed MW:</b> 15-17 kDa	

## Applications

<b>Tested Applications:</b> WB, IF/ICC, Dot Blot, ELISA, ChIP-qPCR	<b>Positive Controls:</b> WB : HeLa cells, HEK-293T cells, K-562 cells
<b>Cited Applications:</b> WB, IHC, ChIP	<b>IF/ICC :</b> HeLa cells,
<b>Species Specificity:</b> human	<b>Dot Blot :</b> / / ,
<b>Cited Species:</b> human, mouse	<b>ChIP-qPCR :</b> HeLa cells,

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Huiya Ying	41258371	Arch Pharm Res	ChIP
Licheng Yan	40582435	Cell Signal	IHC,WB,ChIP
Rudan Zhou	41059285	J Inflamm Res	WB

## 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:

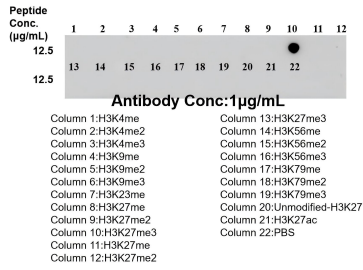
T: 4006900926

E: Proteintech-CN@ptglab.com

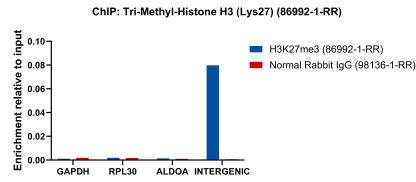
W: ptgcn.com

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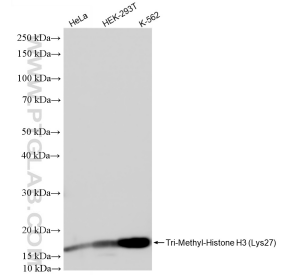
## Selected Validation Data



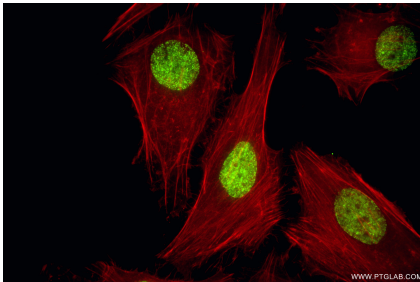
Dot blot analysis was used to confirm the specificity of 86992-1-RR Tri-Methyl-Histone H3 (Lys27) antibody. peptides were spotted onto NC and probed with antibody at 1 µg/ml. The amount of peptide ( µ g/ml) spotted is indicated next to each row



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 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.



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.



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).