For Research Use Only

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

Catalog Number:86992-1-RR 4 Publications

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Basic Information

Catalog Number:
86992-1-RR

Size:
100ul , Concentration: 1000 μg/ml by Nanodrop;

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.:
252044D11

Recommended Dilutions:
WB: 1:2000-1:10000
IF/ICC: 1:500-1:2000
Dot Blot: 1:10-1:100
ChIP-qPCR: 1:10-1:100

Applications

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

Cited Applications:
WB, IHC, ChIP

Species Specificity:
human

Cited Species:
human, mouse

Positive Controls:

WB : HeLa cells, HEK-293T cells, K-562 cells

IF/ICC : HeLa cells,

Dot Blot : / /,

ChIP-qPCR : 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
Qiangjun Ling	41617717	Nat Commun	ChIP
Huiya Ying	41258371	Arch Pharm Res	ChIP
Licheng Yan	40582435	Cell Signal	IHC,WB,ChIP

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
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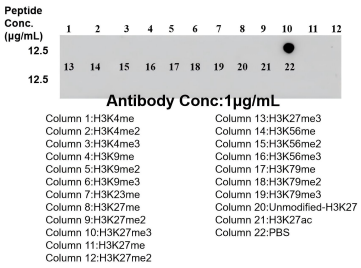
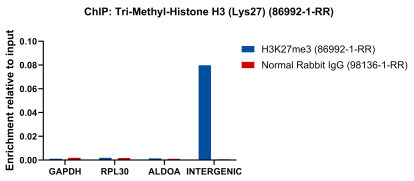
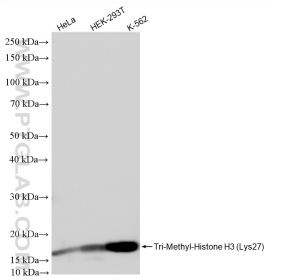
Selected Validation Data



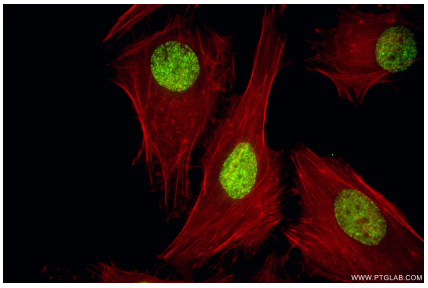
Dot blot analysis was used to confirm the specificity of 86992-1-RR Tri-Methyl-Histone H3 (Lys27) antibody. peptides were spotted onto NC and probed with antibody at 1 µg/ml.The amount of peptide (µg/mL) spotted is indicated next to each row



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 Tri-Methyl-Histone H3 (Lys27) (86992-1-RR) or 5 ug 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).