

For Research Use Only

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

Catalog Number: 80240-2-RR

1 Publications



Basic Information

Catalog Number:	80240-2-RR	GenBank Accession Number:	BC066245	Purification Method:	Protein A purification
Size:	100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI):	8350	CloneNo.:	241994C6
Source:	Rabbit	UNIPROT ID:	P68431	Recommended Dilutions:	WB: 1:500-1:2000
Isotype:	IgG	Full Name:	histone cluster 1, H3a	IF/ICC:	1:500-1:2000
		Observed MW:	15 kDa	Dot Blot:	1:500-1:2000
				ChIP-qPCR:	1:10-1:100

Applications

Tested Applications:	WB, IF/ICC, Dot Blot, ELISA, ChIP-qPCR	Positive Controls:	WB : NIH/3T3 cells, HeLa cells
Cited Applications:	ChIP	IF/ICC :	NIH/3T3 cells,
Species Specificity:	human, mouse	Dot Blot :	/ / ,
Cited Species:	human	ChIP-qPCR :	HeLa cells,

Background Information

Histones, including H1/H5 (linker histones), H2, H3, and H4 (core histones), are nucleic proteins which interact with DNA to form the nucleosomes and play important roles in gene regulation and DNA replication. Histone proteins are highly post-translationally modified while Histone H3 is the most extensively modified. Methylation of Histone H3 at lysine 9 is linked to transcriptional repression.

Notable Publications

Author	Pubmed ID	Journal	Application
Jinhao Liu	42071237	Genome Biol	ChIP

Storage

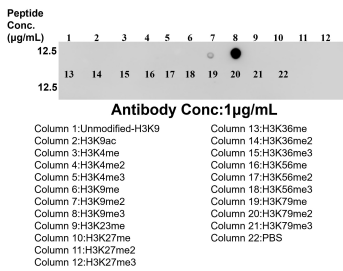
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

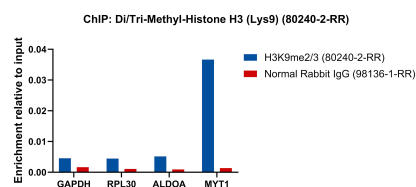
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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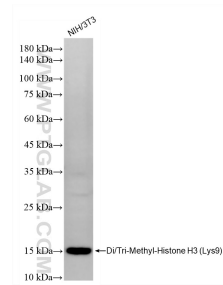
Selected Validation Data



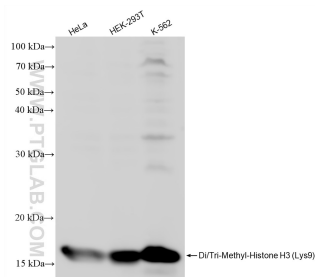
Dot blot analysis was used to confirm the specificity of 80240-2-RR Di/Tri-Methyl-Histone H3 (Lys9) antibody. peptides were spotted onto NC and probed with antibody at 1 µg/mL. The amount of peptide (µg/mL) spotted is indicated next to each row.



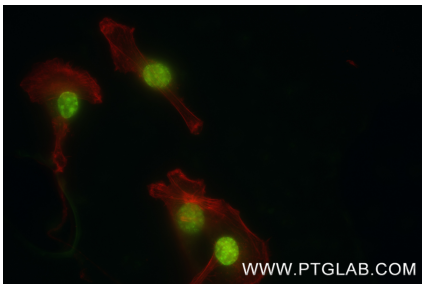
Chromatin was prepared from HeLa cells. Cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 15 µg of cross-linked chromatin, 5 µg of Di/Tri-Methyl-Histone H3 (Lys9) (80240-2-RR) or 5 µg of Normal Rabbit IgG (98136-1-RR), and 20 µl of Protein A Magarose Beads. The immunoprecipitated DNA was quantified by real-time PCR.



NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80240-2-RR (HIST1H3A antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 80240-2-RR (Di/Tri-Methyl-Histone H3 (Lys9) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed NIH/3T3 cells using Di/Tri-Methyl-Histone H3 (Lys9) antibody (80240-2-RR, Clone: 241994C6) at dilution of 1:1000 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).