For Research Use Only

Phospho-Histone H3 (Ser28) Recombinant monoclonal antibody

Catalog Number:82828-15-RR

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Basic Information

Catalog Number:
82828-15-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 kDa

Purification Method:
Protein A purification

CloneNo.:
250369A1

Recommended Dilutions:
WB: 1:5000-1:50000
ChIP-qPCR: 1:10-1:100

Applications

Tested Applications:
WB, ELISA, ChIP-qPCR

Species Specificity:
human

Positive Controls:

WB : nocodazole treated HeLa cells,

ChIP-qPCR : Nocodazole-HeLa (100 ng/ml, 16 h) HeLa cells,

Background Information

Histone modifications and variants have key roles in the activation and silencing of genes. Phosphorylation of histone H3 at serine 10 and serine 28 is involved in transcriptional activation of genes responding to stress or mitogen-stimulated signaling pathways. Histone H3 phosphorylated at serine 28 was located at the promoter region of the transcriptionally active, but not competent, histone H5 and β-globin genes (PMID: 17913747).

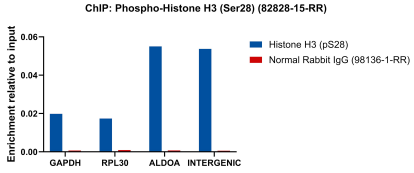
Storage

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

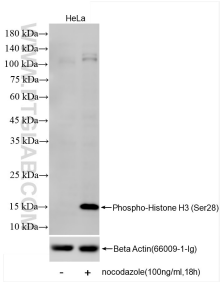
***** 20ul sizes contain 0.1% BSA**

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
W: ptglab.com

Selected Validation Data



Chromatin was prepared from HeLa cells treated with Nocodazole (100 ng/ml) for 16 h. Cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 20 µg of cross-linked chromatin, 5 µg of Phospho-Histone H3 (Ser28) (82828-15-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.



Nocodazole treated HeLa cells were subjected to SDS PAGE followed by western blot with 82828-15-RR (Phospho-Histone H3 (Ser28) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Beta Actin Monoclonal antibody (66009-1-Ig) as loading control.