For Research Use Only

Phospho-Histone H3 (Ser10) Recombinant antibody

Catalog Number:82828-10-RR

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Antibodies | ELISA kits | Proteins
Uni-rAb
www.ptglab.com

Basic Information

Catalog Number:
82828-10-RR

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

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_003529

GeneID (NCBI):
8350

UNIPROT ID:
P68431

Full Name:
histone cluster 1, H3a

Calculated MW:
15 kDa

Observed MW:
15 kDa

Purification Method:
Protein A purification

CloneNo.:
242921B1

Recommended Dilutions:
WB 1:1000-1:4000
IF/ICC 1:400-1:1600

Applications

Tested Applications:
WB, IF/ICC, ELISA

Species Specificity:
human, mouse, rat

Positive Controls:

WB : nocodazole treated HeLa cells, Calyculin A treated HSC-T6 cells, nocodazole NIH/3T3 cells

IF/ICC : HepG2 cells,

Background Information

Phospho-histone-H3 (PHH3) is a core histone protein, which in its phosphorylated state forms the principal constituents of eukaryotic chromatin, with histone H3 being phosphorylated at serine (Ser) 10 or Ser28 as well as its phosphorylation of Ser10 being strongly correlated with the late G2 to M-phase transition in mammalian mitotic cells. On the basis of previous research, a few cell line- and animal model-based researches have displayed an increase in phosphorylation of histone H3 at Ser10 (H3S10ph), the only histone marker that is involved in carcinogenesis and cellular transformation. Histone H3 phosphorylation on serine-10 is specific to mitosis and phosphorylated histone H3 (PHH3) proliferation markers (as counts defined per area or as indices defined per cell numbers) are increasingly being used to evaluate proliferation in various tumors.

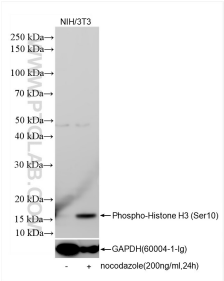
Storage

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

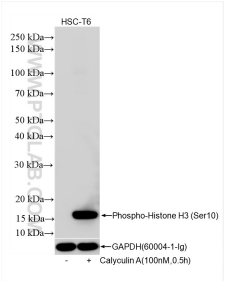
***** 20ul sizes contain 0.1% BSA**

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

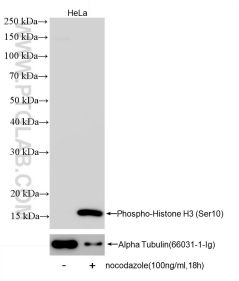
Selected Validation Data



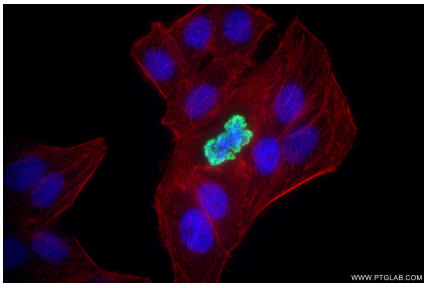
Nocodazole treated and untreated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 82828-10-RR (Phospho-Histone H3 (Ser10) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with GAPDH Monoclonal antibody (60004-1-Ig) as loading control.



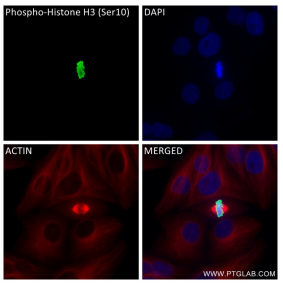
Calyculin A treated and untreated HSC-T6 cells were subjected to SDS PAGE followed by western blot with 82828-10-RR (Phospho-Histone H3 (Ser10) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with GAPDH Monoclonal antibody (60004-1-Ig) as loading control.



Nocodazole treated HeLa cells were subjected to SDS PAGE followed by western blot with 82828-10-RR (Phospho-Histone H3 (Ser10) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with Alpha Tubulin Monoclonal antibody (66031-1-Ig) as loading control.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Phospho-Histone H3 (Ser10) antibody (82828-10-RR, Clone: 242921B1) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



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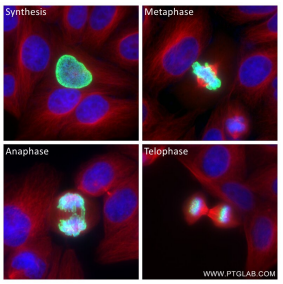

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