

For Research Use Only

Phospho-Histone H3 (Thr3) Recombinant antibody

Catalog Number: 84739-1-RR



Basic Information

Catalog Number: 84739-1-RR	GenBank Accession Number: BC066245	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 8350	CloneNo.: 241897G3
Source: Rabbit	UNIPROT ID: P68431	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:200-1:800
Isotype: IgG	Full Name: histone cluster 1, H3a	
	Observed MW: 15 kDa	

Applications

Tested Applications: WB, IF/ICC, FC (Intra), ELISA	Positive Controls: WB : Calyculin A treated HeLa cells, Calyculin A treated NIH/3T3 cells, Calyculin A treated HSC-T6 cells IF/ICC : HeLa cells,
Species Specificity: human, mouse, rat	

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

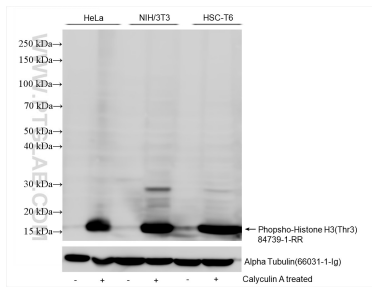
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

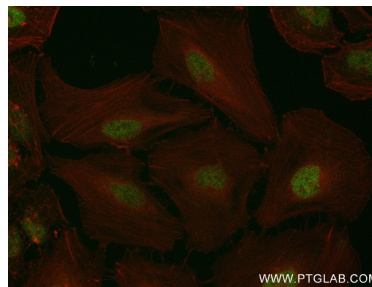
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

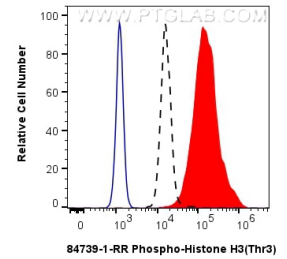
Selected Validation Data



Non-treated HeLa cells, NIH/3T3 cells, HSC-T6 cells, and Calyculin A treated HeLa cells, NIH/3T3 cells, HSC-T6 cells were subjected to SDS PAGE followed by western blot with 84739-1-RR (Phospho-Histone H3 (Thr3) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Alpha Tubulin (66031-1-Ig) antibody as a loading control.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using HIST1H3A antibody (84739-1-RR, Clone: 241897G3) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1X10⁶ HeLa cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.06 ug Phospho-Histone H3 (Thr3) Recombinant antibody (84739-1-RR, Clone:241897G3) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.06 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.