

For Research Use Only

# Phospho-Histone H3 (Thr3) Recombinant antibody, PBS Only

Catalog Number: 84739-1-PBS



## Basic Information

Catalog Number:

84739-1-PBS

Size:

100ug, Concentration: 1 mg/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.:

241897G3

## Applications

Tested Applications:

WB, IF/ICC, FC (Intra), Indirect ELISA

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 -80°C.

Storage Buffer:

PBS Only

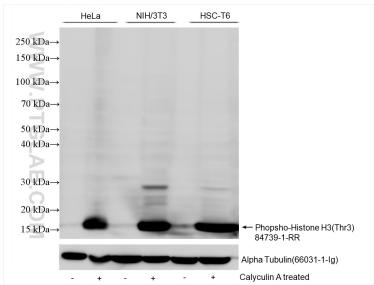
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free  
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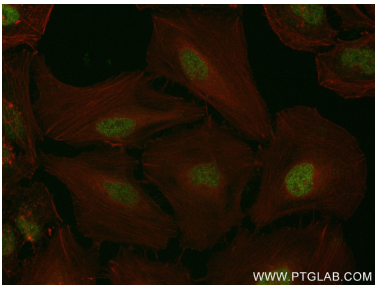
E: proteintech@ptglab.com  
W: ptglab.com

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

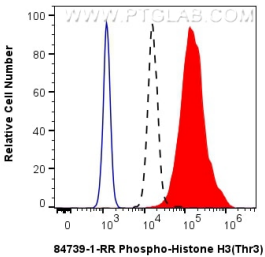
Selected Validation Data



Non-treated HeLa cels, NIH/3T3 cells, HSC-T6 cells, and Calyculin A treated HeLa cels, 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. This data was developed using the same antibody clone with 84739-1-



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). This data was developed using the same antibody clone with 84739-1-PBS in a different storage buffer formulation.



1X10<sup>6</sup> 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. This data was developed