

For Research Use Only

CoraLite® Plus 647-conjugated Phospho-Histone H3 (Thr3) Recombinant antibody

Catalog Number: CL647-84739



Basic Information

Catalog Number:

CL647-84739

GenBank Accession Number:

BC066245

Purification Method:

Protein A purification

Size:

100ul , Concentration: 1000 ug/ml by
Nanodrop;

GeneID (NCBI):

8350

CloneNo.:

241897G3

Source:

Rabbit

UNIPROT ID:

P68431

Recommended Dilutions:

FC (Intra): 0.25 ug per 10⁶ cells in a
100 µl suspension

Isotype:

IgG

Full Name:

histone cluster 1, H3a

Excitation/Emission maxima wavelengths:

654 nm / 674 nm

Observed MW:

15 kDa

Applications

Tested Applications:

FC (Intra)

Positive Controls:

FC (Intra) : Calyculin A treated 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. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% glycerol, 0.05% Proclin300, 0.5% BSA, pH7.3

Aliquoting is unnecessary for -20°C storage

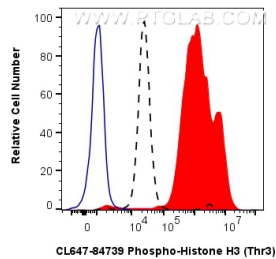
For technical support and original validation data for this product please contact:

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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



1X10⁶ HeLa cells untreated (dashed lines) or treated with Calyculin A which intracellularly stained with 0.25 ug Coralite® Plus 647 Phospho-Histone H3 (Thr3) Recombinant Antibody (CL647-84739, Clone:241897G3)(red), or 0.25 ug Coralite® Plus 647 Rabbit IgG Isotype Control RecAb (CL647-98136, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.