

For Research Use Only

CoraLite® Plus 647-conjugated Phospho-Histone H3 (Ser10) Monoclonal antibody



Catalog Number: **CL647-66863**

Basic Information

Catalog Number: CL647-66863	GenBank Accession Number: NM_003529	Purification Method: Protein G purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 8350	CloneNo.: 4C7G2
Source: Mouse	Full Name: histone cluster 1, H3a	Excitation/Emission maxima wavelengths: 654 nm / 674 nm
Isotype: IgG1	Calculated MW: 15 kDa	
	Observed MW: 15-17 kDa	

Applications

Tested Applications:
FC (Intra)

Species Specificity:
Human, rat, mouse, pig

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.

Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

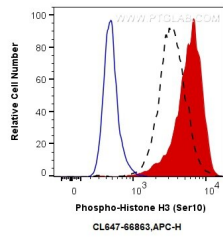
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)

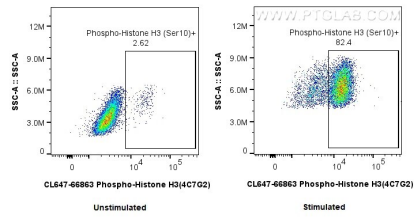
E: proteintech@ptglab.com
W: ptglab.com

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

Selected Validation Data



1X10⁶ HeLa cells untreated (dashed lines) or treated with nocodazole (red) were intracellularly stained with 0.25 ug CoralLite® Plus 647 Anti-Human Phospho-Histone H3 (Ser10) (CL647-66863, Clone:4C7G2), or 0.25 ug Control Antibody (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



1X10⁶ unstimulated or 20 μ M Nocodazole treated 24 hours HeLa cells were intracellularly stained with 0.4 ug CoralLite® Plus 647 Anti-Human Phospho-Histone H3 (Ser10) (CL647-66863, Clone:4C7G2). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.