

For Research Use Only



# CoraLite® Plus 488-conjugated Phospho-Histone H3 (Ser10) Monoclonal antibody

Catalog Number: **CL488-66863**

## Basic Information

Catalog Number: CL488-66863	GenBank Accession Number: NM_003529	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 8350	CloneNo.: 4C7G2
Source: Mouse	Full Name: histone cluster 1, H3a	Excitation/Emission maxima wavelengths: 493 nm / 522 nm
Isotype: IgG1	Calculated MW: 15 kDa	
	Observed MW: 15-17 kDa	

## Applications

Tested Applications:  
FC (Intra)

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, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

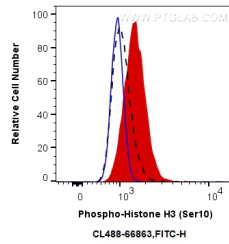
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E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



1X10<sup>6</sup> HeLa cells untreated (dashed lines) or treated with nocodazole (red) were intracellularly stained with 0.5  $\mu$ g CoraLite® Plus 488 Anti-Human Phospho-Histone H3 (Ser10) (CL488-66863, Clone:4C7G2), or 0.5  $\mu$ g Control Antibody (blue). Cells were fixed with 4% PFA and permeabilized with 90% MeOH.