

À des fins de recherche uniquement

# Anticorps Monoclonal anti-Phospho-Histone H3 (Ser10)



Numéro de catalogue: 66863-1-Ig

12 Publications

## Informations de base

Numéro de catalogue: 66863-1-Ig	Numéro d'acquisition GenBank: NM_003529	Méthode de purification: Purification par protéine A
Taille: 100ul, Concentration: 1500 µg/ml by Nanodrop and 1431 µg/ml by Bradford method using BSA as the standard;	Identification du gène (NCBI): 8350	CloneNo.: 4C7G2
Hôte: Mouse	Nom complet: histone cluster 1, H3a	Dilutions recommandées: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF 1:50-1:500
Isotype: IgG1	MW calculé: 15 kDa	
	MW observés: 15-17 kDa	

## Applications

Applications testées:  
FC, IF, IHC, WB, ELISA

Demandes citées:  
IF, IHC, WB

Spécificité de l'espèce:  
Humain, porc, rat, souris

Espèces citées:  
Humain, poulet, rat, souris

**Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9.0; (\*) À défaut, le démasquage de l'antigène peut être effectué avec un tampon citrate pH 6,0.**

Contrôles positifs:

WB : cellules HeLa, cellules HEK-293, cellules HSC-T6, cellules Jurkat, cellules MCF-7, cellules NIH3T3, cellules RAW264.7

IHC : tissu de cancer du sein humain, tissu cardiaque de souris, tissu cardiaque humain, tissu cérébral de souris, tissu d'amygdalite humaine, tissu de cancer du côlon humain, tissu rénal de souris

IF : tissu de cancer du sein humain, cellules A549, cellules C2C12, cellules HeLa, cellules MCF-7, cellules SKOV-3, tissu testiculaire de souris

## Informations générales

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.

## Publications notables

Autrice	Pubmed ID	Journal	Application
Steven J Edwards	33195398	Front Mol Biosci	IF
Kensuke Iwasa	36436172	Neurochem Res	WB
Yang Wang	36405746	Front Immunol	WB

## Stockage

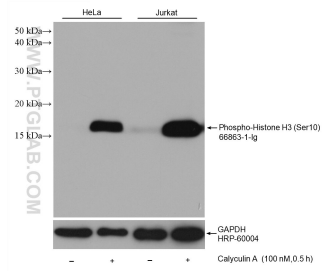
Stockage:  
Stocker à -20°C. Stable pendant un an après l'expédition.  
Tampon de stockage:  
PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3  
L'aliquotage n'est pas nécessaire pour le stockage à -20C

\*\*\* Les 20ul contiennent 0,1% de BSA.

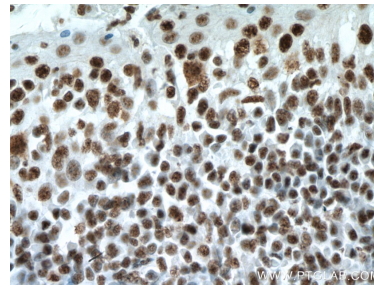
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

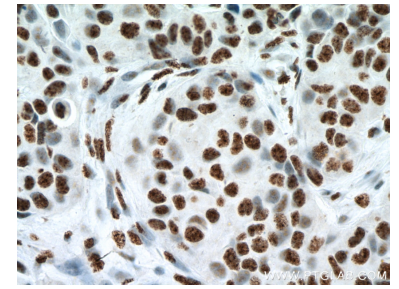
# Données de validation sélectionnées



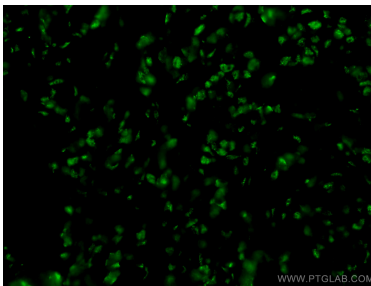
Various lysates were subjected to SDS PAGE followed by western blot with 66863-1-Ig (Phospho-Histone H3 (Ser10) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



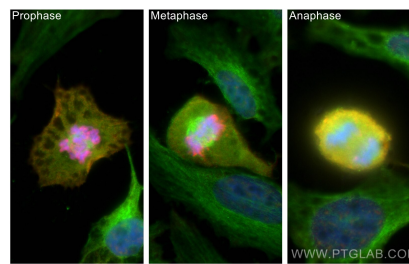
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66863-1-Ig (H3S10-phospho antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



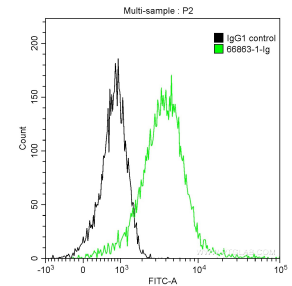
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66863-1-Ig (H3S10-phospho antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



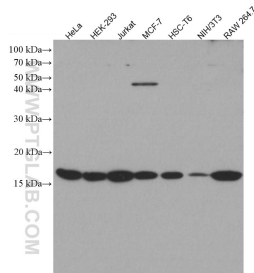
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using 66863-1-Ig (PHH3 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



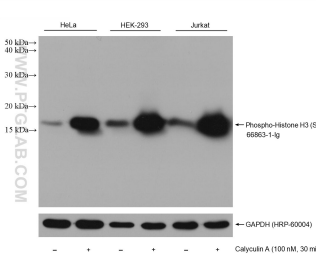
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Phospho-Histone H3 (Ser10) antibody (66863-1-Ig, Clone: 4C7G2) at dilution of 1:1500 and CoraLite@594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), Alpha Tubulin antibody (11224-1-AP, green).



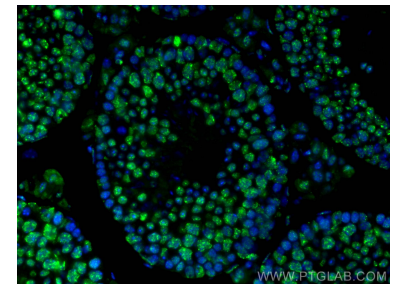
1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.5 ug Anti-Human Phospho-Histone H3 (Ser10) (66863-1-Ig, Clone:4C7G2) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.5 ug Mouse IgG1 Isotype Control (66360-1-Ig, Clone: T1F8D3F10) (black). Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100.



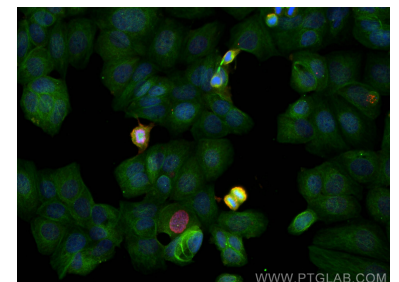
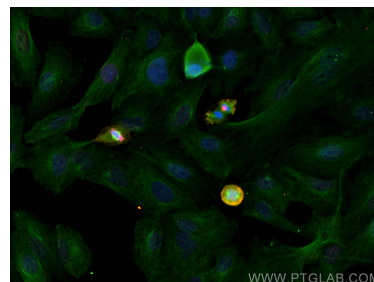
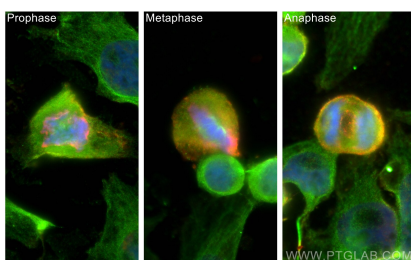
Various lysates were subjected to SDS PAGE followed by western blot with 66863-1-Ig (Phospho-Histone H3 (Ser10) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



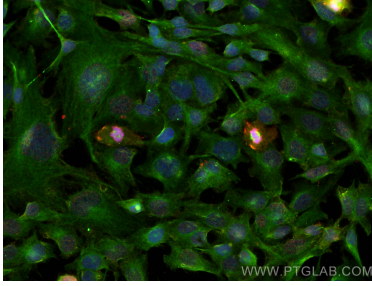
Non-treated and Calyculin A treated cells were subjected to SDS PAGE followed by western blot with 66863-1-Ig (Phospho-Histone H3 (Ser10) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using Phospho-Histone H3 (Ser10) antibody (66863-1-Ig, Clone: 4C7G2) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

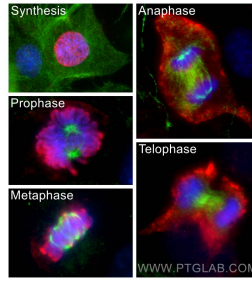


Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Phospho-Histone H3 (Ser10) antibody (66863-1-Ig, Clone: 4C7G2) at dilution of 1:1500 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), Alpha Tubulin antibody (11224-1-AP, green).



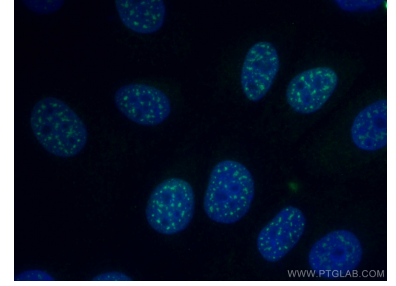
Immunofluorescent analysis of (4% PFA) fixed SKOV-3 cells using Phospho-Histone H3 (Ser10) antibody (66863-1-Ig, Clone: 4C7G2) at dilution of 1:1500 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), Alpha Tubulin antibody (11224-1-AP, green).

Immunofluorescent analysis of (4% PFA) fixed A549 cells using Phospho-Histone H3 (Ser10) antibody (66863-1-Ig, Clone: 4C7G2) at dilution of 1:1500 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), Alpha Tubulin antibody (11224-1-AP, green).

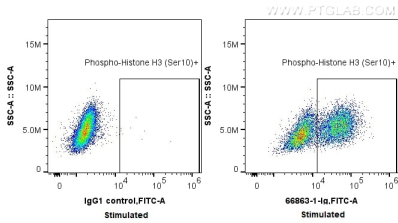


Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using Phospho-Histone H3 (Ser10) antibody (66863-1-Ig, Clone: 4C7G2) at dilution of 1:1200 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), Alpha Tubulin antibody (11224-1-AP, green).

Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Phospho-Histone H3 (Ser10) antibody (66863-1-Ig, Clone: 4C7G2) at dilution of 1:1500 and CoraLite®594-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), Alpha Tubulin antibody (11224-1-AP, green).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using Phospho-Histone H3 (Ser10) antibody (66863-1-Ig, Clone: 4C7G2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10<sup>6</sup> nocodazole treated HeLa cells were intracellularly stained with 0.25 ug Anti-Human Phospho-Histone H3 (Ser10) (66863-1-Ig, Clone:4C7G2) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.25 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with 90% MeOH.