

Nur für Forschungszwecke

# Phospho-Histone H3 (Ser10) Monoklonaler Antikörper



Katalog-Nr.: 66863-1-Ig **9 Publikationen**

## Allgemeine Informationen

<b>Katalog-Nr.:</b> 66863-1-Ig	<b>GenBank-Zugangsnummer:</b> NML_003529	<b>Reinigungsmethode:</b> Protein-A-Reinigung
<b>Größe:</b> 100ul, Konzentration: 1500 µg/ml von 8350 Nanodrop und 1431 µg/ml durch die Bradford-Methode mit BSA als Standard;	<b>GeneID (NCBI):</b> Vollständiger Name: histone cluster 1, H3a	<b>CloneNo.:</b> 4C7G2
<b>Wirt:</b> Maus	<b>Berechnete Masse:</b> 15 kDa	<b>Empfohlene Verdünnungen:</b> WB 1:1000-1:6000 IHC 1:1000-1:4000 IF 1:50-1:500
<b>Isotyp:</b> IgG1	<b>Beobachtete Masse:</b> 15-17 kDa	

## Anwendungen

### Geprüfte Anwendungen:

FC, IF, IHC, WB, ELISA

### In Publikationen genannte Anwendungen:

IF, IHC, WB

### Getestete Reaktivität:

Hausschwein, Human, Maus, Ratte

### Zitierte Arten:

Huhn, Human, Maus

**Hinweis-IHC: Antigendmaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigendmaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

### Positivkontrollen:

**WB** : HeLa-Zellen, HEK-293-Zellen, Jurkat-Zellen, MCF-7-Zellen, NIH3T3-Zellen, RAW264.7-Zellen

**IHC** : humanes Mammakarzinomgewebe, humanes Herzgewebe, humanes Kolonkarzinomgewebe, humanes Tonsillitisgewebe, Mausherzgewebe, Maushirngewebe, Mausnierengewebe

**IF** : humanes Mammakarzinomgewebe, MCF-7-Zellen

## Hintergrundinformationen

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 the 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.

## Bemerkenswerte Veröffentlichungen

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

## Lagerung

### Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

### Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

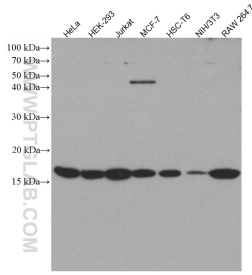
For technical support and original validation data for this product please contact:

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

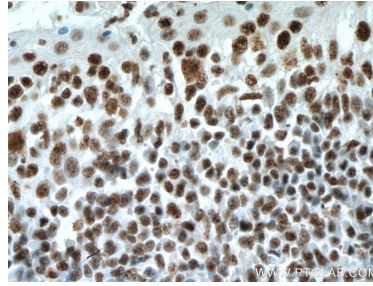
E: proteintech@ptglab.com  
W: ptglab.com

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

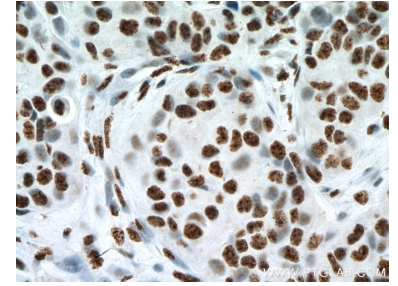
## Ausgewählte Validierungsdaten



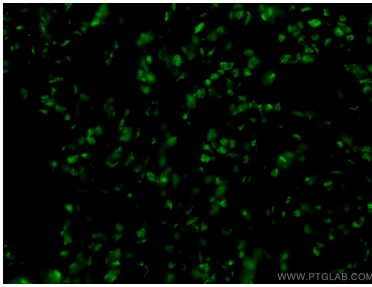
Various lysates were subjected to SDS PAGE followed by western blot with 66863-1-Ig (Phospho-Histone H3 (Ser10) antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



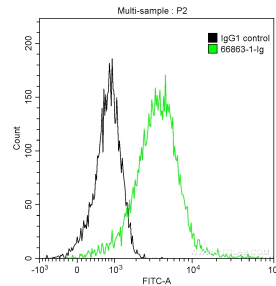
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66863-1-Ig (H3S10-phospho antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



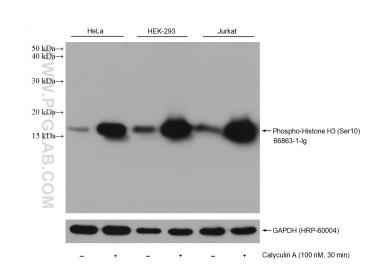
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 66863-1-Ig (H3S10-phospho antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



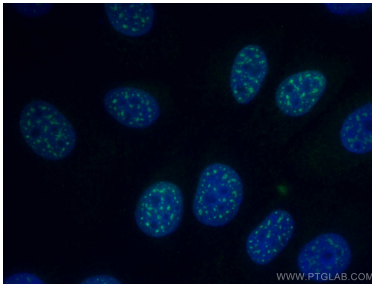
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using 66863-1-Ig (PHH3 antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



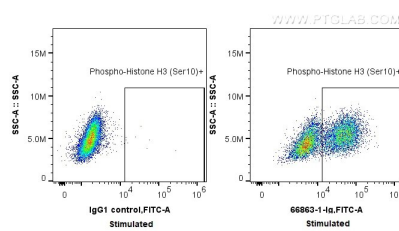
$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.5 ug Anti-Human Phospho-Histone H3 (Ser10) (66863-1-Ig, Clone:4C7G2) and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.5 ug Mouse IgG1 Isotype Control (66360-1-Ig, Clone: T1F8D3F10) (black). Cells were fixed with 4% PFA and permeabilized with 0.1% TritonX-100.



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.



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).



$1 \times 10^6$  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.