Histone H3(Phospho-Ser10) Rabbit mAb

Catalog No: #13337

Package Size: #13337-1 50ul #13337-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Histone H3(Phospho-Ser10) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal
Clone No.	SA31-01
Purification	ProA affinity purified
Applications	WB;ICC/IF;IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Ser10 of human Histone H3.
Conjugates	Unconjugated
Other Names	H3 3 like sequence MH921 antibody H3 3A antibody H3 a antibody H3 b antibody H3 c antibody H3 d antibody H3 f antibody H3 h antibody H3 histone family member E pseudogene antibody H3 i antibody H3 j antibody H3 k antibody H3 l antibody H33_HUMAN antibody H3F3 antibody H3f3b antibody Histone H3 3 pseudogene antibody Histone H3.3 antibody
Accession No.	Swiss-Prot#:P68431
Calculated MW	15 kDa
SDS-PAGE MW	17 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

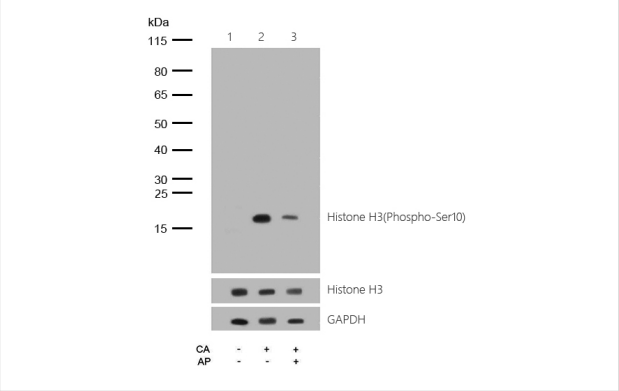
Application Details

WB: 1:500-1:2000

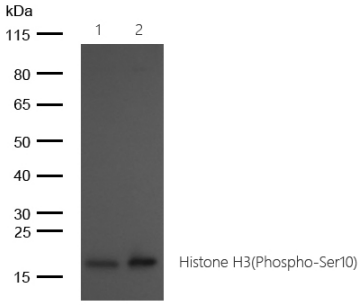
ICC/IF: 1:50-1:200

IHC: 1:50-1:200

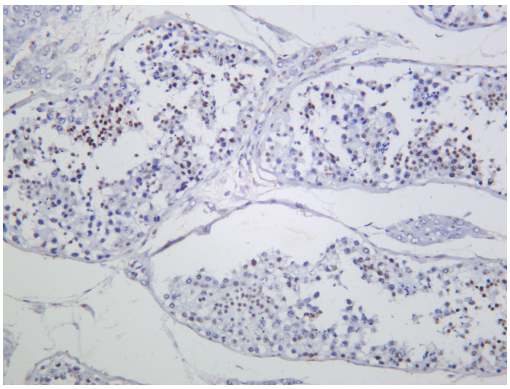
Images



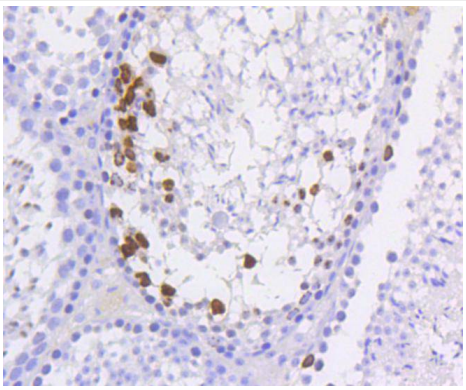
All lanes : Histone H3(Phospho-Ser10) Rabbit mAb at 1/1k dilutionLane 1 : HeLa whole cell lysatesLane 2 : HeLa treated with 100nM calyculin A for 30min whole cell lysatesLane 3 : HeLa treated with calyculin A and alkaline phosphatase whole cell lysatesLysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 15 kDa Observed band size: 17 kDaExposure time: 6 seconds



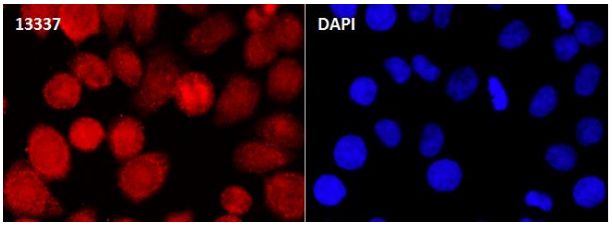
All lanes : Histone H3(Phospho-Ser10) Rabbit mAb at 1/1k dilutionLane 1 : 3T3 whole cell lysatesLane 2 : C6 whole cell lysatesLysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 15 kDa Observed band size: 17 kDaExposure time: 5 seconds



Formalin-fixed;paraffin-embedded human testis tissue stained for Histone H3 (Phospho-S10) using 13337 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed;paraffin-embedded mouse testis tissue stained for Histone H3 (Phospho-S10) using 13337 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence Histone H3 (Phospho-S10) antibody (13337)
ICC/IF staining of Histone H3(Phospho-S10) in HeLa cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.
Samples were incubated with 13337 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 647 goat anti rabbit;used at a dilution of 1/500.
Nuclei were counterstained with DAPI.

Background

In eukaryotes, DNA is wrapped around histone octamers to form the basic unit of chromatin structure. The octamer is composed of histones H2A, H2B, H3 and H4, and it associates with approximately 200 base pairs of DNA to form the nucleosome. The association of DNA with histones results in dense packing of chromatin, which restricts proteins involved in gene transcription from binding to DNA. Histone H3, the core protein of the nucleosome, becomes phosphorylated at the end of prophase. The two major sites of phosphorylation are the mitosis-specific site Ser10, and Ser28, both of which are extensively phosphorylated in DNA-bound forms of histone H3 and in nucleosomal histone H3. The nucleosome structure of histone H3 promotes N-terminal phosphorylation in vitro.

References

1. Hammond SL et al. Mitotic phosphorylation of histone H3 threonine 80. Cell Cycle 13:440-52 (2014).
2. Martin HL et al. High-content, high-throughput screening for the identification of cytotoxic compounds based on cell morphology and cell proliferation markers. PLoS One 9:e88338 (2014).

Published Papers

Yuan Xuechun, Wen Shangyou, Shi Haixing, Luo Yaoyao, Wang Shuangcheng, He Zhongshan, Song Xiangrong, Long Hu el at., Multifunctional Inorganic-Nanosheets-Based Nanohydrogel for Periodontal Bone Regeneration via Antibacterial and Anti-Ferroptotic Immunomodulation, ACS applied materials & interfaces, (2025)

PMID:41250788

Note: This product is for in vitro research use only and is not intended for use in humans or animals.