Product Datasheet

Phospho-Histone H3(S10) Rabbit mAb

Catalog No: #13337

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

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

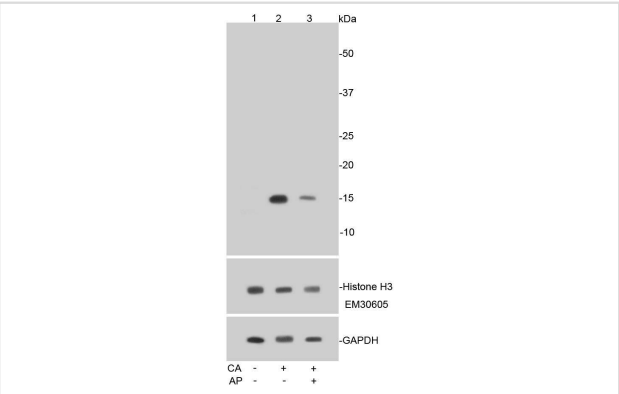
Description

Product Name	Phospho-Histone H3(S10) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	SA31-01
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Ser10 of human Histone H3.
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
Uniprot	P68431
GeneID	8350;8351;8352;8353;8354;8355;8356;8357;8358;8968;
Calculated MW	15 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

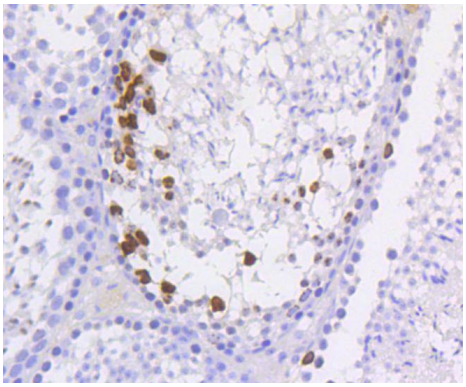
Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200ICC: 1:50-1:200

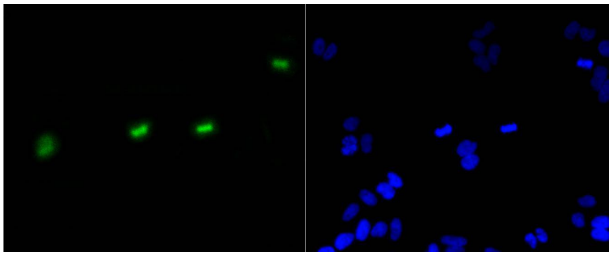
Images



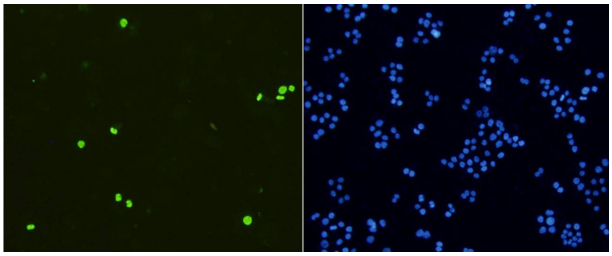
Western blot analysis of Phospho-Histone H3(S10) on Hela cell lysates using anti-Phospho-Histone H3(S10) antibody at 1/1,000 dilution. Positive control:
Lane 1: Untreated HeLa cell lysate
Lane 2: HeLa cell lysate treated with calyculin A
Lane 3: HeLa cell lysate treated with calyculin A and alkaline phosphatase



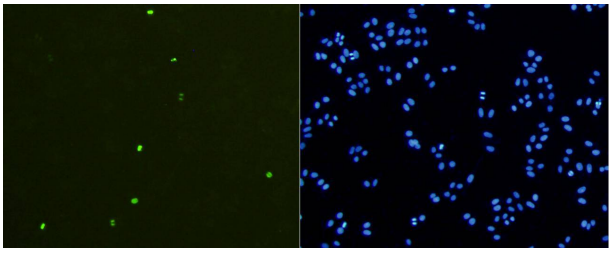
Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-Phospho-Histone H3(S10) antibody. Counter stained with hematoxylin.



ICC staining Phospho-Histone H3(S10) in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Phospho-Histone H3(S10) in Ags cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Phospho-Histone H3(S10) in HepG2 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

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

Note: This product is for in vitro research use only