Data Sheet (Cat.No.TMAC-03224)

Anti-Phospho-HIST1H3A (Ser10) Antibody (5F765)

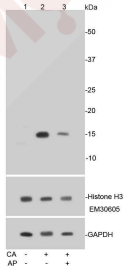
Product Details

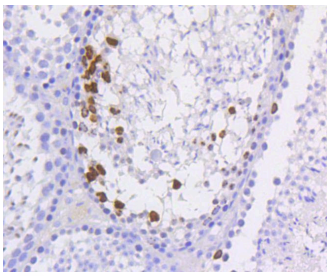
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 15 kDa.
Clone:	5F765
Purification:	ProA affinity purified

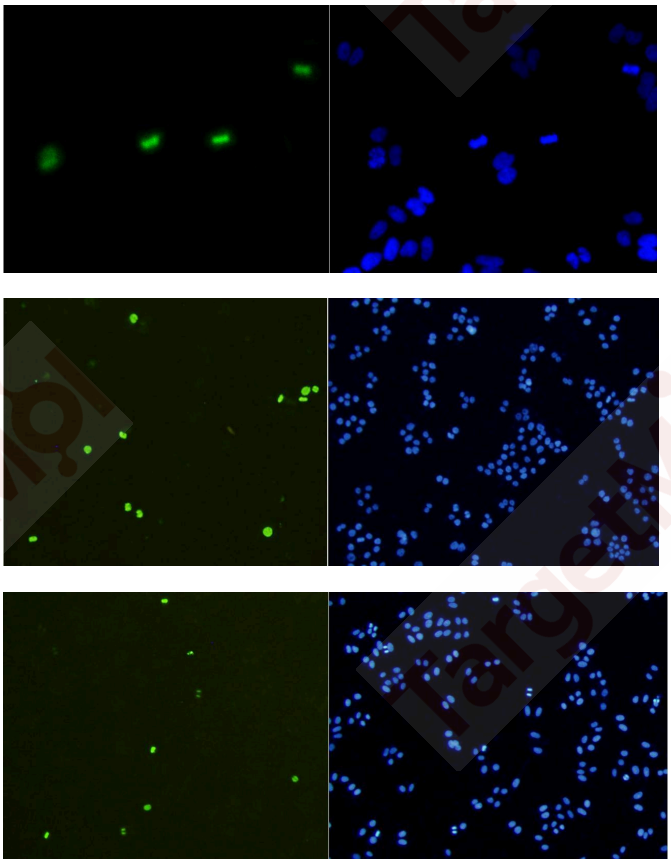
Applications

Verified Activity:

1. 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.
2. Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-Phospho-Histone H3 (S10) antibody. Counter stained with hematoxylin.
3. 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.
4. ICC staining Phospho-Histone H3 (S10) in Ags cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining Phospho-Histone H3 (S10) in HepG2 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.







Application:	ICC/IF,IHC,IP,WB
Recommended	WB: 1:1000-5000; IHC: 1:50-200; ICC/IF: 1:50-200

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	A synthesized phosphopeptide: human Histone H3 around the phosphorylation site of Ser10
Antigen Species:	human
Uniprot ID:	P68431
Synonyms:	p-HIST1H3A (S10);HIST1H3A (p-S10);HIST1H3A (p-Ser10);p-HIST1H3A (Ser10)

Research 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.

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