

**Phospho-H3(S10) Antibody**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP3004a**

## Specification

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### Phospho-H3(S10) Antibody - Product Information

Application	WB,E
Primary Accession	<a href="#">P68431</a>
Other Accession	<a href="#">O71DJ3</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG

### Phospho-H3(S10) Antibody - Additional Information

**Gene ID** 8350;8351;8352;8353;8354;8355;8356;8357;8358;8968

#### Other Names

Histone H31, Histone H3/a, Histone H3/b, Histone H3/c, Histone H3/d, Histone H3/f, Histone H3/h, Histone H3/i, Histone H3/j, Histone H3/k, Histone H3/l, HIST1H3A, H3FA

#### Target/Specificity

This Phospho-H3-S10 antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S10 of human H3.

#### Dilution

WB~~1:1000

#### Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Phospho-H3(S10) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Phospho-H3(S10) Antibody - Protein Information

**Name** H3C1 ([HGNC:4766](#))

**Synonyms** H3FA, HIST1H3A

**Function** Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin,

limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.

#### Cellular Location

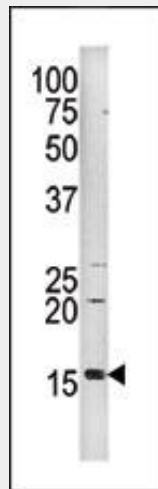
Nucleus. Chromosome.

#### Phospho-H3(S10) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Phospho-H3(S10) Antibody - Images



Western blot analysis of anti-Phospho-H3-pS10 Pab (Cat. #AP3004a) in HepG2 cell line lysate (35ug/lane). Phospho-H3-pS10 (arrow) was detected using the purified Pab.

#### Phospho-H3(S10) Antibody - Background

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3.

#### Phospho-H3(S10) Antibody - References

Lusic, M., et al., EMBO J. 22(24):6550-6561 (2003).  
Deng, L., et al., Virology 289(2):312-326 (2001).  
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El Kharroubi, A., et al., Mol. Cell. Biol. 18(5):2535-2544 (1998).  
Albig, W., et al., Hum. Genet. 101(3):284-294 (1997).