

### Phospho-H3(S28) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP3007a

### **Specification**

### Phospho-H3(S28) Antibody - Product Information

**Application** WB.E **Primary Accession** P68431 Other Accession 071DI3 Reactivity Human Host **Rabbit** Clonality **Polyclonal** Isotype Rabbit IgG Calculated MW 15404

### Phospho-H3(S28) Antibody - Additional Information

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

#### **Other Names**

Histone H3/1, Histone H3/a, Histone H3/b, Histone H3/c, Histone H3/d, Histone H3/f, Histone H3/h, Histone H3/j, Histone H3/k, Histone H3/l, HIST1H3A, H3FA

#### Target/Specificity

This H3 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S28 of human H3.

#### **Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

### **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(S28) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### Phospho-H3(S28) 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.

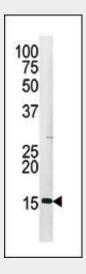
**Cellular Location**Nucleus. Chromosome.

## Phospho-H3(S28) 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 Cytomety
- Cell Culture

## Phospho-H3(S28) Antibody - Images



Western blot analysis of anti-Phospho-H3-pS28 Pab (Cat. #AP3007a) in HepG2 cell line lysate (35ug/lane). Mouse Phospho-H3-pS28(arrow) was detected using the purified Pab.

# Phospho-H3(S28) 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(S28) Antibody - References





Lusic, M., et al., EMBO J. 22(24):6550-6561 (2003).

Deng, L., et al., Virology 289(2):312-326 (2001).

Deng, L., et al., Virology 277(2):278-295 (2000).

El Kharroubi, A., et al., Mol. Cell. Biol. 18(5):2535-2544 (1998).

Albig, W., et al., Hum. Genet. 101(3):284-294 (1997).