

**Phospho-Histone H3 (S10) Antibody**  
Rabbit mAb  
Catalog # AP90233

**Specification**

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**Phospho-Histone H3 (S10) Antibody - Product Information**

Application **WB, IHC, ICC, IP**  
Primary Accession **[P68431](#)**  
Reactivity **Rat**  
Clonality **Monoclonal**

**Other Names**

H3 histone, family 3A; H3 histone, family 3B (H3.3B); H3.3A; H3.3B; H33; H3F3; H3F3A; H3F3B; Histone H3.3;

Isotype **Rabbit IgG**  
Host **Rabbit**  
Calculated MW **15404 Da**

**Phospho-Histone H3 (S10) Antibody - Additional Information**

Purification **Affinity-chromatography**  
Immunogen **A synthesized peptide derived from human Phospho-Histone H3 (S10)**  
Description **Variant histone H3 which replaces conventional H3 in a wide range of nucleosomes in active genes. Constitutes the predominant form of histone H3 in non-dividing cells and is incorporated into chromatin independently of DNA synthesis. Deposited at sites of nucleosomal displacement throughout transcribed genes, suggesting that it represents an epigenetic imprint of transcriptionally active chromatin. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template.**  
Storage Condition and Buffer **Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.**

**Phospho-Histone 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

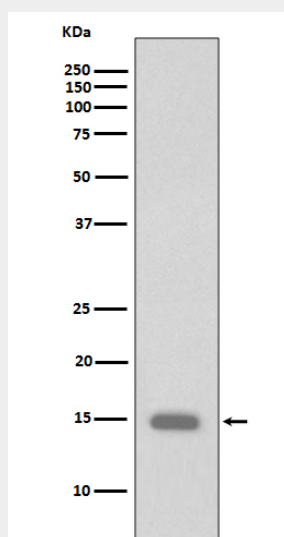
Nucleus. Chromosome.

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



Western blot analysis of Phospho-Histone H3 (S10) expression in HeLa cell lysate treated with calyculin A.