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Phospho-HIST1H3B3(S10) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AW5153

Specification

Phospho-HIST1H3B3(S10) Antibody - Product Information

Application	**WB,E**
Primary Accession	P68431
Reactivity	**Human**
Predicted	**Mouse, Rat, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**H=15,M=15,Rat=15 KDa**
Isotype	**Rabbit Ig**
Antigen Source	**HUMAN**

Phospho-HIST1H3B3(S10) Antibody - Additional Information

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

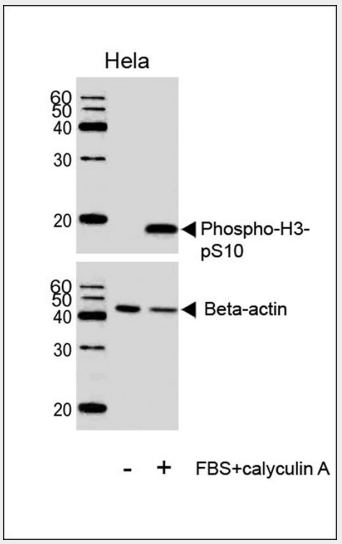
Antigen Region
8-35

Other Names
HIST1H3A; H3FA; Histone H3.1; 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

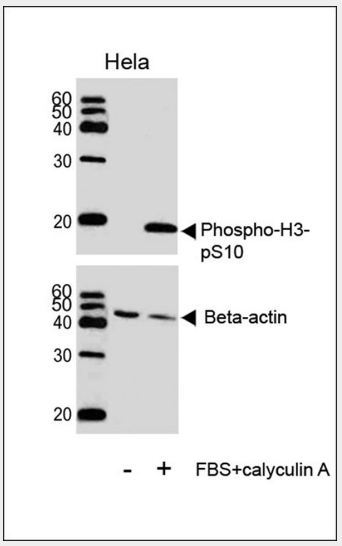
Dilution
WB~~1:500

Target/Specificity
This HIST1H3B3 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S10 of human HIST1H3B3.

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.



Western blot analysis of lysate from Hela cell line, using Phospho-H3-pS10 Antibody (Cat. #AW5153). AW5153 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.Lysate at 20ug.



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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-HIST1H3B3(S10) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-HIST1H3B3(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-HIST1H3B3(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 Cytomety
- Cell Culture

antibody.Lysate at 20ug.

Phospho-HIST1H3B3(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-HIST1H3B3(S10) Antibody - References

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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).