

Mouse Histone H3S10ph Antibody | anti-H3S10ph antibody

AbFlex Histone H3S10ph antibody (rAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60262	Mouse	Human, Wide Range Predicted	Western Blot, Dot Blot

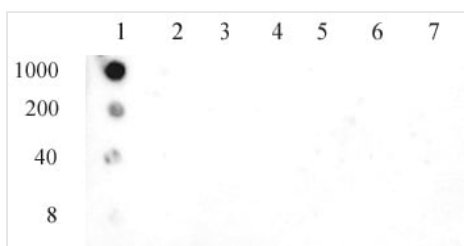
PRODUCT SYNONYMS

Histone H3S10ph; AbFlex Histone H3S10ph antibody (rAb); anti-H3S10ph antibody

PRODUCT SPECIFICATIONS

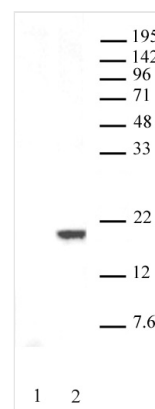
Host	Mouse
Reactivity	Human, Wide Range Predicted
Isotype	IgG2a
Purity/Purification	Protein A Chromatography
Form/Format	Purified IgG in 140mM Hepes, pH7.5, 70mM NaCl, 32mM NaOAc, 0.035% sodium azide, 30% glycerol. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H3S10ph antibody	WB (Western Blot), DB (Dot Blot)
Antibody Type	Recombinant Antibody
Conjugation	Phosphorylated
Immunogen	This antibody was raised against a peptide containing phospho-serine 10 of Histone H3.
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul

IMAGES



DB (Dot Blot)

AbFlex Histone H3S10ph antibody specificity is shown by Dot Blot. Recombinant peptides were spotted onto PVDF as follows: Column 1 - Histone H3S10ph; Column 2 - Histone H3S10 (non-phosphorylated); Column 3 - Histone H3.1S28ph; Column 4 - Histone H3.1S28 (non-phosphorylated); Column 5 - Histone H3.3S31ph; Column 6 - Histone H3.3S31ph (non-phosphorylated); Column 7 - Histone H3.3S28ph. The membrane was probed with AbFlex Histone H3S10ph antibody at 2 ug/ml.



SDS-PAGE

AbFlex Histone H3S10ph antibody tested by Western blot. 20 ug of HeLa cell extracts (Lane 1 – untreated, Lane 2 – Colcemid treated) were run on SDS-PAGE and probed with AbFlex Histone H3S10ph antibody at 0.5 ug/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-H3S10ph antibody	Short Description: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. Our AbFlex Histone H3S10ph antibody (rAb) was raised in a Mouse host. It has been validated for use in Dot blot and Western blot; it has been shown to react with Human samples, but it is predicted that it will react with a wide range of sample types. Background: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. AbFlex Histone H3S10ph antibody was expressed as full-length IgG with mouse immunoglobulin heavy and light chains (IgG2a isotype) in CHO (Chinese Hamster Ovary) cells. Histone H3 is one of the core components of the nucleosome. The nucleosome is the smallest subunit of chromatin and consists of 147 base pairs of DNA wrapped around an octamer of core histone proteins (two each of Histone H2A, Histone H2B, Histone H3 and Histone H4). Histone H1 is a linker histone, present at the interface between the nucleosome core and DNA entry/exit points. Histone H1 is responsible for establishing higher-order chromatin structure. Chromatin is subject to a variety of chemical modifications, including post-translational modifications of the histone proteins and the methylation of cytosine residues in the DNA. Reported histone modifications include acetylation, methylation, phosphorylation, ubiquitylation, glycosylation, ADP-ribosylation, carbonylation and SUMOylation; these modifications play a major role in regulating gene expression. Interestingly, phosphorylation of Ser10 on histone H3 is involved in both transcription and cell division, two events requiring opposite alterations in the degree of chromatin compaction. Ser10 in the tail of histone H3 is strongly phosphorylated early in mitosis when chromosomes begin to condense, and during premature chromosome condensation induced in S-phase cells.
Product Categories/Family for anti-H3S10ph antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

Molecular Weight	17kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-human-antibody/histone-h3s10ph/60262>