

Rabbit Histone H3S10ph Polyclonal Antibody | anti-H3S10ph antibody

Histone H3S10ph antibody (pAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59852	Rabbit	Human, Wide Range Predicted	Western Blot, Immunofluorescence, Immunocytochemistry, Dot Blot, Chromatin Immunoprecipitation, Immunoprecipitation

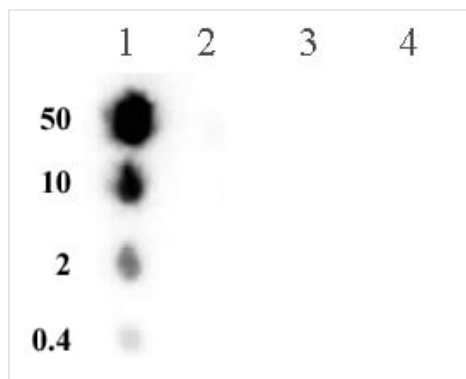
PRODUCT SYNONYMS

Histone H3S10ph; Polyclonal Antibody; Histone H3S10ph antibody (pAb); anti-H3S10ph antibody

PRODUCT SPECIFICATIONS

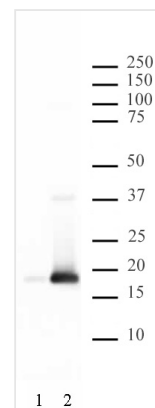
Host	Rabbit
Reactivity	Human, Wide Range Predicted
Clonality	Polyclonal
Form/Format	Rabbit serum containing 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Applicable Applications for anti-H3S10ph antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), DB (Dot Blot), ChIP (Chromatin immunoprecipitation)
Conjugation	Phosphorylated
Immunogen	This Histone H3 phospho Ser10 antibody was raised against a peptide including phospho-serine 10 of histone H3.
Abs Residue	Ser
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



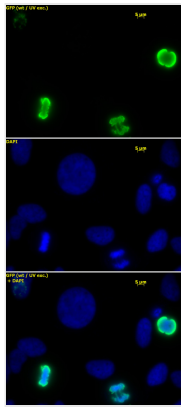
DB (Dot Blot)

Histone H3 phospho Ser10 antibody tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H3 phospho Ser10 antibody for histone H3 phospho Ser10. Phosphorylated peptides corresponding to the immunogen and a related sequence derived from histone H3 were spotted onto PVDF and probed with the antibody at 1:50,000. The amount of peptide (picomoles) spotted is indicated next to each row. Lane 1: phospho-Ser10 peptide. Lane 2: unmodified Ser10 peptide. Lane 3: phospho-Ser28 peptide 4 peptide. Lane 4: unmodified Ser28 peptide.



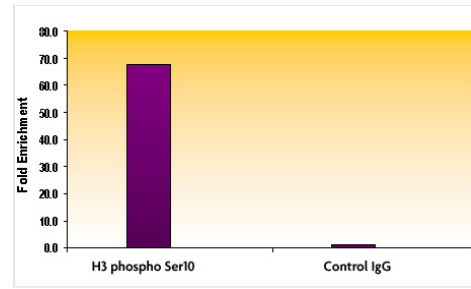
WB (Western Blot)

Histone H3 phospho Ser10 antibody tested by Western blot. HeLa acid extract (10 ug per lane) probed with Histone H3 phospho Ser10 antibody at a dilution of 1:20,000. Lane 1: No treatment. Lane 2: Cells treated with colcemid to arrest cells at mitosis.



IF (Immunofluorescence)

Histone H3 phospho Ser10 antibody tested by immunofluorescence. Staining of HeLa cells with Histone H3 phospho Ser10 antibody (1:2,000 dilution, top panel) and DAPI (middle panel), and a merge of both images (bottom panel).



ChIP (Chromatin Immunoprecipitation)

Histone H3 phospho Ser10 antibody tested by ChIP analysis. Chromatin IP performed using the ChIP-IT Express Kit and HeLa Chromatin (1.5 x 10⁶ cell equivalents per ChIP) using 10 µl of Histone H3 phospho Ser10 antibody or the equivalent amount of rabbit IgG as a negative control. Real time, quantitative PCR (RT-qPCR) was performed on DNA purified from each of the ChIP reactions using a primer pair specific for the GAPDH gene promoter. Data are presented as Fold Enrichment of the ChIP antibody signal versus the negative control IgG using the ddCT method.

ADDITIONAL INFORMATION

Related Product Information for anti-H3S10ph antibody

Short Description: Our Histone H3S10ph antibody (pAb) was raised in a Rabbit host. It has been validated for use in Chromatin Immunoprecipitation, Dot blot, Immunocytochemistry, Immunofluorescence 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: 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). 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

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/polyclonal/histone-h3s10ph-antibody-western-blot-immunofluorescence-immunocytochemistry-dot-blot-chromatin-immunoprecipitation-elisa/59852>