

Rabbit Histone H3S10ph Monoclonal Antibody | anti-H3S10ph antibody

Histone H3S10ph antibody (mAb)(Clone MABI 0312)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA59902	Rabbit	Human, Wide Range Predicted	Western Blot, Immunofluorescence, Immunocytochemistry, Dot Blot

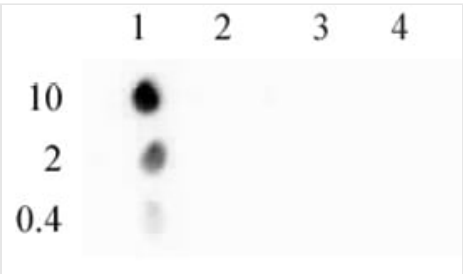
PRODUCT SYNONYMS

Histone H3S10ph; Monoclonal Antibody; Histone H3S10ph antibody (mAb)(Clone MABI 0312); anti-H3S10ph antibody

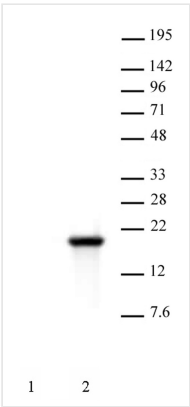
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Wide Range Predicted
Clonality	Monoclonal
Isotype	IgG1
Clone Number	MABI 0312
Purity/Purification	Protein G Chromatography
Form/Format	PBS pH7.5 containing 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H3S10ph antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), DB (Dot Blot)
Conjugation	Phosphorylated
Immunogen	This Histone H3 phospho Ser10 antibody was raised against a peptide containing phospho serine 10 of human 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

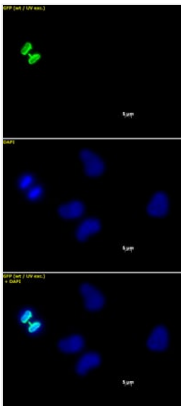
IMAGES



DB (Dot Blot)
Histone H3 phospho Ser10 mAb tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H3 phospho Ser10 mAb for phospho Ser10 histone H3. Phosphorylated peptides corresponding to the immunogen and related peptides were spotted onto PVDF and probed with the antibody at 1 ug/ml. The amount of peptide (picomoles) spotted is indicated next to each row. Lane 1: peptide phosphorylated at serine 10. Lane 2: unmodified serine 10 peptide. Lane 3: peptide phosphorylated at serine 28. Lane 4: unmodified serine 28 peptide.



WB (Western Blot)
Histone H3S10ph antibody (mAb) tested by Western blot. HeLa nuclear extract (30 ug per lane) was probed with Histone H3S10ph antibody at a 2 ug/ml dilution. Lane 1: No treatment. Lane 2: Cells treated with colcemid.



IF (Immunofluorescence)
Histone H3 phospho Ser10 mAb tested by immunofluorescence. Staining of HeLa cells with Histone H3 phospho Ser10 mAb (1 ug/ml, top panel) and DAPI (middle panel), and a merge of both images (bottom panel).

ADDITIONAL INFORMATION

Related Product Information for anti-H3S10ph antibody	Short Description: Our Histone H3S10ph antibody (mAb)(Clone MAB1 0312) was raised in a Mouse host. It has been validated for use in 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 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/monoclonal/histone-h3s10ph-antibody-clone-mabi-0312-western-blot-immunofluorescence-immunocytochemistry-dot-blot-elisa/59902>