

Rat Histone H3.1S28ph Monoclonal Antibody | anti-H3.1S28ph antibody

Histone H3.1S28ph antibody (mAb)(Clone 5D10D4)

CATALOG # AAA60076	HOST Rat	REACTIVITY Human, Wide Range Predicted	APPLICATIONS Western Blot, Immunofluorescence, Immunocytochemistry
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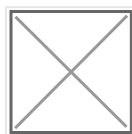
PRODUCT SYNONYMS

Histone H3.1S28ph; Monoclonal Antibody; Histone H3.1S28ph antibody (mAb)(Clone 5D10D4); anti-H3.1S28ph antibody

PRODUCT SPECIFICATIONS

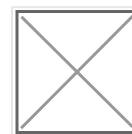
Host	Rat
Reactivity	Human, Wide Range Predicted
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	5D10D4
Purity/Purification	Protein G Chromatography
Form/Format	Purified IgG in PBS with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-H3.1S28ph antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry)
Conjugation	Phosphorylated
Immunogen	This antibody was raised against a peptide corresponding to phospho-serine 28 of human Histone H3.1. This antibody does not react with Histone H3.3 phosphorylated on serine 28.
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



WB (Western Blot)

Histone H3.1S28ph antibody (mAb) (Clone 5D10D4) tested by Western blot. Detection of Histone H3.1S28ph antibody by Western blot. The analysis was performed using 20 ug of untreated (lane 1) or colcemid treated (lane 2) HeLa nuclear extract with Histone H3.1S28ph antibody at a 1 ug/ml dilution.



IF (Immunofluorescence)

Histone H3.1S28ph antibody (mAb) (Clone 5D10D4) tested by Immunofluorescence. Left: Formaldehyde fixed mitotic DM4 cell stained with Histone H3.1S28ph antibody (mAb). Right: Hoechst stain.

ADDITIONAL INFORMATION

Related Product Information for anti-H3.1S28ph antibody	<p>Short Description: Our Histone H3.1S28ph antibody (mAb)(Clone 5D10D4) was raised in a Rat host. It has been validated for use in 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.</p> <p>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. There are three protein variants of Histone H3, Histone H3.1, 3.2 and 3.3. The incorporation of Histone H3.1 and H3.2 into nucleosomes is replication dependent, in contrast to Histone H3.3, which is independent of DNA synthesis and occurs throughout the cell cycle. Human Histone H3.1 and H3.3 are identical in amino acid sequences except at position 110 where H3.1 has a cysteine and H3.3 has a serine. Phosphorylation of serine 28 occurs in early mitosis when chromosomes begin to condense and during premature chromosome condensation induced in S-phase cells.</p>
Product Categories/Family for anti-H3.1S28ph 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/monoclonal/histone-h31s28ph-antibody-clone-5d10d4-western-blot-immunofluorescence-immunocytochemistry-elisa/60076>