

Rat anti-Human Histone H3.1 Monoclonal Antibody | anti-HIST1H3F antibody

Histone H3.1 (pSer28) antibody | 5D10D4

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50437	Rat	Human	Western Blot, Immunofluorescence

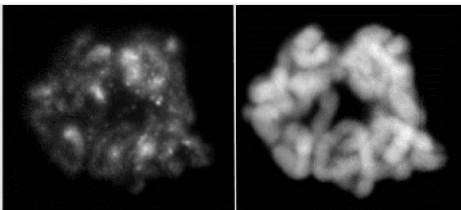
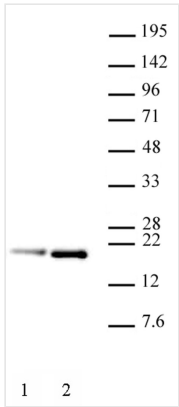
PRODUCT SYNONYMS

Histone H3.1; Monoclonal Antibody; Histone H3.1 (pSer28) antibody | 5D10D4; RAT ANTI HUMAN HISTONE H3.1 (pSer28); anti-HIST1H3F antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b
Clone Number	5D10D4
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Form/Format	Purified IgG - Liquid Phosphate buffered saline 0.035% Sodium Azide (NaN ₃), 30% Glycerol
Concentration	IgG concentration 1.0mg/ml (varies by lot)
Applicable Applications for anti-HIST1H3F antibody	WB (Western Blot), IF (Immunofluorescence)
Immunogen	A peptide containing phosphorylated serine 28 of human histone H3.1
Preparation and Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20 degree C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8 degree C for short term use (up to 4 weeks) and store the remaining aliquots at -20 degree C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use.

IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of formaldehyde fixed mitotic DM4 cells with histone H3.1 (pSer28) antibody, clone 5D10D4 (AAA50437) (left), counterstained with Hoechst (right).

WB (Western Blot)
Western blot analysis of untreated HeLa cell nuclear extract (20 ug; lane 1) or Hela nuclear extract treated with colcemid (20 ug; lane 2) probed with histone H3.1 (pSer28) antibody, clone 5D10D4 (AAA50437) at a 1 ug/ul dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-HIST1H3F antibody	Rat anti Human histone H3.1 (pSer28) antibody, clone 5D10D4 recognizes Histone H3.1 when phosphorylated at serine 28.
	Histone H3 is one of the four core histones that make up the nucleosome core particle. Nucleosomes are the smallest subunit of chromatin and are made up of 146 bp of DNA wrapped around an octamer comprised of pairs of the four core histones (H2A, H2B, H3, and H4) (Smith, 1991). In contrast to histone H3.3, incorporation of histone H3.1 and histone H3.2 into nucleosomes is replication dependent rather than occurring throughout the cell cycle (Tagami et al. 2004). Phosphorylation of histone H3.1 at serine 28 occurs in early mitosis and during premature chromosome condensation in cells that are in S-phase of the cell cycle (Zhong et al. 2003).
	Rat anti Human histone H3.1 (pSer28) antibody, clone 5D10D4 does not react with histone H3.3 phosphorylated on serine 28. Wide species cross-reactivity is expected based on sequence.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504281
NCBI GeneID	8350
NCBI Accession #	NP_003520.1
NCBI GenBank Nucleotide #	NM_003529.2
UniProt Accession #	P68431; P02295; P02296; P16106; Q6ISV8; Q6NWP8; Q6NWP9; Q6NXU4; Q71DJ3; Q93081; A0PJT7; A5PLR1
Molecular Weight	15,404 Da
NCBI Official Full Name	histone H3.1
NCBI Official Synonym Full Names	histone cluster 1, H3a
NCBI Official Symbol	HIST1H3A
NCBI Official Synonym Symbols	H3/A; H3FA
NCBI Protein Information	histone H3.1; histone H3/a; histone 1, H3a; H3 histone family, member A
UniProt Protein Name	Histone H3.1
UniProt Gene Name	HIST1H3A
UniProt Synonym Gene Names	H3FA
UniProt Entry Name	H31_HUMAN

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-h31-antibody-clone-5d10d4-western-blot-immunofluorescence-elisa/50437>