

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

Histone H3 (pSer10) antibody | 6G8B7

CATALOG # AAA50439	HOST Rat	REACTIVITY Human	APPLICATIONS Western Blot, Immunofluorescence, ELISA
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PRODUCT SYNONYMS

Histone H3; Monoclonal Antibody; Histone H3 (pSer10) antibody | 6G8B7; RAT ANTI HUMAN HISTONE H3 (pSer10); anti-HIST1H3F antibody

PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	6G8B7
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), ELISA
Immunogen	A peptide corresponding to amino acids 1-19 including phosphorylated serine 10 of human histone H3
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



WB (Western Blot)

Western blot analysis of HeLa cell nuclear extract (20 ug) probed with histone H3 (pSer10) antibody, Clone 6G8B7 (AAA50439) at a 2 ug/ml dilution.



IF (Immunofluorescence)

Immunofluorescence staining of HeLa cells probed with histone H3 (pSer10) antibody (AAA50439; top) and stained with Hoechst (bottom).

ADDITIONAL INFORMATION

Related Product Information for anti-HIST1H3F antibody	Rat anti Human histone H3 (pSer10) antibody, clone 6G8B7 recognizes histone H3 when phosphorylated at serine 10. 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). Histones may be modified in several ways including acetylation, methylation, phosphorylation, ubiquitination, glycosylation, and SUMOylation (Koch et al. 2007). Phosphorylation of histone H3 has been shown to occur during the early stages of mitosis when chromosomes begin to condense, and during premature condensing of chromosomes during S-phase of the cell cycle. Phosphorylation of histone H3 at serine 10 has been linked to both transcription and cell division (Hans and Dimitrov, 2001). Broad species cross-reactivity is expected from Rat anti Human histone H3 (pSer10) antibody based on sequence.
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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-h3-antibody-clone-6g8b7-western-blot-immunofluorescence-elisa/50439>