Histone H3 (HIST1H3A) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Histone H3 (HIST1H3A), Polyclonal Antibody
Full Product Name	Phospho-Histone H3 (Ser10) Rabbit pAb
Product Gene Name	anti-HIST1H3A antibody
Product Synonym Names	H3/b; H3FB; histone h3.1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Unpurified
OMIM	602810
3D Structure	ModBase 3D Structure for P68431
Immunogen	Peptide sequence around phosphorylation site of serine 10 (R-K-S(p)-T-G) derived from Human Histone H3.1.
Cellular Localization	Chromosome, Nucleosome Core, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HIST1H3A antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC)
Application Notes for anti-HIST1H3A antibody	WB: 1:500-1:1000 ICC: 1:100-1:200 IHC: 1:50-1:100
Related Product Information for anti-HIST1H3A antibody	MBS8541507 is an antibody targeting HIST1H3A. Also known as Phospho-Histone H3 (Ser10) Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-HIST1H3A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIST1H3A. It may not necessarily be applicable to this product.

NCBI GI #	4504281
NCBI Accession #	NP_003520.1
UniProt Primary Accession #	P68431
GenBank Nucleotide #	NP_003520.1
NCBI Official Full Name	histone H3.1
UniProt Protein Name	Histone H3.1

UniProt Synonym Protein Names	Histone H3/a; Histone H3/b; Histone H3/c; Histone H3/d; Histone H3/f; Histone H3/h; Histone H3/i; Histone H3/j; Histone H3/k; Histone H3/l
Protein Family	Histone H3-like centromeric protein
UniProt Gene Name	HIST1H3A
UniProt Synonym Gene Names	H3FA
UniProt Entry Name	H31_HUMAN
UniProt Comments for HIST1H3A	H3: Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling. The nucleosome is a histone octamer containing two molecules each of H2A, H2B, H3 and H4 assembled in one H3-H4 heterotetramer and two H2A-H2B heterodimers. The octamer wraps approximately 147 bp of DNA. Belongs to the histone H3 family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 6p22.2 Cellular Component: nucleoplasm; nuclear chromosome; protein complex; membrane; extracellular region; nucleosome; nucleus Molecular Function: protein binding; DNA binding; histone binding; protein heterodimerization activity Biological Process: chromatin silencing at rDNA; nucleosome assembly; establishment and/or maintenance of chromatin architecture; negative regulation of gene expression, epigenetic; protein heterotetramerization; gene expression; blood coagulation; regulation of gene expression, epigenetic; DNA replication-dependent nucleosome assembly; DNA methylation on cytosine
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