Histone H2A (HIST1H2AI) Antibody

PRODUCT OVERVIEW

Product Name	Histone H2A (HIST1H2AI), Antibody
Full Product Name	Histone H2A Antibody
Product Gene Name	anti-HIST1H2AI antibody
Product Synonym Names	FLJ92027; H2A histone family; member C; H2A.1; H2A/c; H2A1; H2AFC; H2AFD; H2AFI; H2AFN; H2AFP; HIST1H2AG; HIST1H2AI; HIST1H2AK; HIST1H2AL; HIST1H2AM; histone 1; H2ai; histone cluster 1; H2ai; Histone H2A type 1; Histone H2A/p
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Immunogen affinity purified
Specificity	Histone H2A Antibody detects endogenous levels of total Histone H2A
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	14,091 Da
OMIM	602787
3D Structure	ModBase 3D Structure for P0C0S8
Immunogen	A synthesized peptide derived from human Histone H2A
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HIST1H2AI antibody	Immunohistochemistry (IHC)
Application Notes for anti-HIST1H2AI antibody	IHC: 1:50-1:200
Related Product Information for anti-HIST1H2AI antibody	H2A.1 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.
Other Notes	Small volumes of anti-HIST1H2AI 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.
Searchable Terms for HIST1H2AI purchase	MBS8512217 is an antibody targeting HIST1H2AI. Also known as Histone H2A Antibody. Reactive in Human, Mouse, Rat.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIST1H2AI. It may not necessarily be applicable to this product.

NCBI GI #	4504239
NCBI GeneID	8329
NCBI Accession #	NP_003500.1
UniProt Primary Accession #	P0C0S8
UniProt Secondary Accession #	P02261; Q2M1R2; Q76PA6

UniProt Related Accession #	P0C0S8
GenBank Nucleotide #	NM_003509.2
NCBI Official Full Name	histone H2A type 1
NCBI Official Synonym Full Names	histone cluster 1 H2A family member i
NCBI Official Symbol	HIST1H2AI
NCBI Official Synonym Symbols	H2A/c; H2AFC
UniProt Protein Name	Histone H2A type 1
UniProt Synonym Protein Names	Histone H2A/ptl
Protein Family	Histone H2A deubiquitinase
UniProt Gene Name	HIST1H2AG
UniProt Synonym Gene Names	H2AFP; H2A.1
NCBI Protein Information	histone H2A type 1
NCBI Summary for HIST1H2AI	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Two molecules of each of the four core histones (H2A, H2B, H3, and H4) form an octamer, around which approximately 146 bp of DNA is wrapped in repeating units, called nucleosomes. The linker histone, H1, interacts with linker DNA between nucleosomes and functions in the compaction of chromatin into higher order structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H2A family. Transcripts from this gene lack polyA tails but instead contain a palindromic termination element. This gene is found in the small histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]
UniProt Comments for HIST1H2AI	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.
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