Hist1h2ak Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	HIST1H2AK (HIST1H2AG), Blocking Peptide
Full Product Name	HIST1H2AK Antibody (N-term) Blocking peptide
Product Gene Name	HIST1H2AG blocking peptide
Product Synonym Gene Name	H2AFP
Product Synonym Names	Histone H2A type 1; H2A1; Histone H2A/p; HIST1H2AG; H2AFP
Form/Format	The synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	HIST1H2AK peptide (MBS9225631) is used for blocking the activity of HIST1H2AK antibody (MBS9209431)
Molecular Weight	14,091 Da
OMIM	602787
Cellular Location	Nucleus. Chromosome.
Related Product Information for HIST1H2AG blocking peptide	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.
Other Notes	Small volumes of HIST1H2AG blocking peptide 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 HIST1H2AG purchase	MBS9225631 is a blocking peptide targeting HIST1H2AG. Also known as HIST1H2AK Antibody (N-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIST1H2AG. It may not necessarily be applicable to this product.

NCBI GI #	4504241
NCBI GeneID	8330
NCBI Accession #	NP_003501.1
UniProt Primary Accession #	P0C0S8
UniProt Secondary Accession #	P02261; Q2M1R2; Q76PA6
UniProt Related Accession #	P0C0S8; Q99878
GenBank Nucleotide #	NM_003510.2
NCBI Official Full Name	histone H2A type 1
NCBI Official Synonym Full Names	histone cluster 1, H2ak
NCBI Official Symbol	HIST1H2AK

NCBI Official Synonym Symbols	H2A/d; H2AFD
UniProt Protein Name	Histone H2A type 1
UniProt Synonym Protein Names	Histone H2A/p
UniProt Gene Name	HIST1H2AG
UniProt Synonym Gene Names	H2AFP; H2A.1
UniProt Entry Name	H2A1_HUMAN
NCBI Protein Information	histone H2A type 1
NCBI Summary for HIST1H2AG	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 HIST1H2AG	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. 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 H2A family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 6p22.1 Cellular Component: nuclear chromatin; nucleus Molecular Function: DNA binding; enzyme binding; protein binding Biological Process: chromatin silencing
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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