H2AFJ Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	H2AFJ, Blocking Peptide
Full Product Name	H2AFJ Antibody (N-term) Blocking peptide
Product Gene Name	H2AFJ blocking peptide
Product Synonym Names	Histone H2AJ; H2a/j; H2AFJ
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI 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	H2AFJ peptide (MBS9225698) is used for blocking the activity of H2AFJ antibody (MBS9213999)
Molecular Weight	16,110 Da
Cellular Location	Nucleus. Chromosome
Related Product Information for H2AFJ 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 H2AFJ 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 H2AFJ purchase	MBS9225698 is a blocking peptide targeting H2AFJ. Also known as H2AFJ Antibody (N-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for H2AFJ. It may not necessarily be applicable to this product.

NCBI GI #	29553970
NCBI GeneID	55766
NCBI Accession #	NP_808760.1
UniProt Primary Accession #	Q9BTM1
UniProt Secondary Accession #	Q9NV63
UniProt Related Accession #	Q9BTM1
GenBank Nucleotide #	NM_177925.3
NCBI Official Full Name	histone H2A.J
NCBI Official Synonym Full Names	H2A histone family member J
NCBI Official Symbol	H2AFJ
NCBI Official Synonym Symbols	H2AJ
UniProt Protein Name	Histone H2A.J
Protein Family	Histone

UniProt Gene Name	H2AFJ
UniProt Synonym Gene Names	H2a/j
UniProt Entry Name	H2AJ_HUMAN
NCBI Protein Information	histone H2A.J
NCBI Summary for H2AFJ	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone octamer composed of pairs of each of the four core histones (H2A, H2B, H3, and H4). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is located on chromosome 12 and encodes a replication-independent histone that is a variant H2A histone. The protein is divergent at the C-terminus compared to the consensus H2A histone family member. This gene also encodes an antimicrobial peptide with antibacterial and antifungal activity.[provided by RefSeq, Oct 2015]
UniProt Comments for H2AFJ	H2AFJ: 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. 2 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 12p12.3 Cellular Component: nuclear chromatin Molecular Function: DNA binding Biological Process: chromatin silencing
Research Articles on H2AFJ	**1.** The antimicrobial protein buforin I results from proteolytic cleavage of the histone protein H2A in the stomach.
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