HIST2H2AA3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HIST2H2AA3, Polyclonal Antibody
Full Product Name	HIST2H2AA3, NT (HIST2H2AA3, H2AFO, HIST2H2AA, Histone H2A type 2-A, Histone H2A.2, Histone H2A/o) (MaxLight 750)
Product Gene Name	anti-HIST2H2AA3 antibody
Product Synonym Names	HIST2H2AA3; H2AFO; HIST2H2AA; Histone H2A type 2-A; Histone H2A.2; Histone H2A/o
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	14,095 Da
OMIM	142720
3D Structure	ModBase 3D Structure for Q6FI13
Immunogen	HIST2H2AA3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human HIST2H2AA3.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-HIST2H2AA3 antibody	Antibodies; Histones
Applications Tested/Suitable for anti-HIST2H2AA3 antibody	Western Blot (WB), FLISA
Application Notes for anti-HIST2H2AA3 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-HIST2H2AA3 antibody	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 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 a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy.

Product References and Citations for anti-HIST2H2AA3 antibody	Bergink, S., et al. Genes Dev. 20(10):1343-1352(2006). Bonenfant, D., et al. Mol. Cell Proteomics 5(3):541-552(2006). Boyne, M.T. II, et al. J. Proteome Res. 5(2):248-253(2006). Cao, R., et al. Mol. Cell 20(6):845-854(2005). Hagiwara, T., et al. Biochemistry 44(15):5827-5834(2005).
Other Notes	Small volumes of anti-HIST2H2AA3 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 HIST2H2AA3 purchase	MBS6306855 is an antibody targeting HIST2H2AA3. Also known as HIST2H2AA3, NT (HIST2H2AA3, H2AFO, HIST2H2AA, Histone H2A type 2-A, Histone H2A.2, Histone H2A/o) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIST2H2AA3. It may not necessarily be applicable to this product.

NCBI GI #	106775678
NCBI GeneID	723790
NCBI Accession #	NP_001035807.1
NCBI Related Accession #	NP_003507.1
UniProt Primary Accession #	Q6FI13
UniProt Secondary Accession #	P20670; B2R5F0
UniProt Related Accession #	Q6FI13
GenBank Nucleotide #	NM_001040874.1
NCBI Official Full Name	histone H2A type 2-A
NCBI Official Synonym Full Names	histone cluster 2, H2aa4
NCBI Official Symbol	HIST2H2AA4
NCBI Official Synonym Symbols	H2A/R
UniProt Protein Name	Histone H2A type 2-A
UniProt Synonym Protein Names	Histone H2A.2; Histone H2A/o
UniProt Gene Name	HIST2H2AA3
UniProt Synonym Gene Names	H2AFO; HIST2H2AA
UniProt Entry Name	H2A2A_HUMAN
NCBI Protein Information	histone H2A type 2-A
NCBI Summary for HIST2H2AA3	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 a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the telomeric copy. [provided by RefSeq, Aug 2015]

UniProt Comments for HIST2H2AA3	H2AO: 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. Chromosomal Location of Human Ortholog: 1q21.2 Cellular Component: nucleosome; nucleus Molecular Function: DNA binding; protein heterodimerization activity
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