Histone H3 (HIST1H3A) Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	Histone H3 (HIST1H3A), Polyclonal Antibody
Full Product Name	Histone H3 (Mono Methyl Lys4) Polyclonal Antibody
Product Gene Name	anti-HIST1H3A antibody
Clonality	Polyclonal
Molecular Weight	15,404 Da
OMIM	137800
3D Structure	ModBase 3D Structure for P68431
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-HIST1H3A antibody	MBS8519505 is an antibody targeting HIST1H3A. Also known as Histone H3 (Mono Methyl Lys4) Polyclonal Antibody.
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 GeneID	8350
NCBI Accession #	NP_003520.1
UniProt Primary Accession #	P68431
UniProt Secondary Accession #	P02295; P02296; P16106; Q6ISV8; Q6NWP8; Q6NWP9; Q6NXU4; Q71DJ3; Q93081; A0PJT7; A5PLR1
UniProt Related Accession #	P68431
GenBank Nucleotide #	NM_003529.2
NCBI Official Full Name	histone H3.1
NCBI Official Synonym Full Names	histone cluster 1 H3 family member a
NCBI Official Symbol	HIST1H3A
NCBI Official Synonym Symbols	H3/A; H3FA
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
NCBI Protein Information	histone H3.1

NCBI Summary for HIST1H3A	Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an 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 intronless and encodes a replication-dependent histone that is a member of the histone H3 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in the large histone gene cluster on chromosome 6p22-p21.3. [provided by RefSeq, Aug 2015]
UniProt Comments for HIST1H3A	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.MiscellaneousThis histone is only present in mammals and is enriched in acetylation of Lys-15 and dimethylation of Lys-10 (H3K9me2).CautionThe original paper reporting lysine deamination at Lys-5 by LOXL2 has been retracted due to inappropriate manipulation of figure data (PubMed:22483618, PubMed:27392148). However, this modification was confirmed in a subsequent publication (PubMed:27735137).
Research Articles on HIST1H3A	**1.** These results identify cytokine-induced histone 3 lysine 27 trimethylation as a mechanism that stabilizes gene silencing in macrophages
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