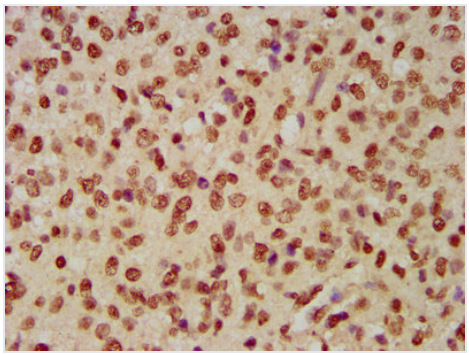
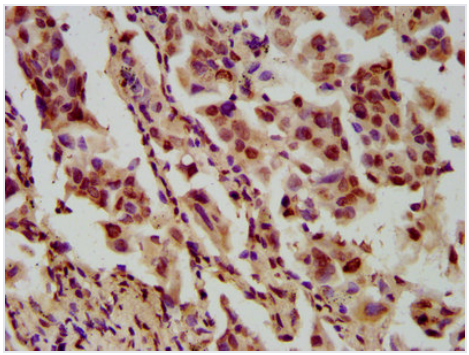
HIST1H4A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HIST1H4A, Polyclonal Antibody
Full Product Name	HIST1H4A(Ab-12) Antibody
Product Gene Name	anti-HIST1H4A antibody
Product Synonym Names	Histone H4; HIST1H4A; H4/A; H4FA; AND; HIST1H4B; H4/I; H4FI; AND; HIST1H4C; H4/G; H4FG; AND; HIST1H4D; H4/B; H4FB; AND; HIST1H4E; H4/J; H4FJ; AND; HIST1H4F; H4/C; H4FC; AND; HIST1H4H; H4/H; H4FH; AND; HIST1H4I; H4/M; H4FM; AND; HIST1H4J; H4/E; H4FE; AND; HIST1H4K; H4/D; H4FD; AND; HIST1H4L; H4/K; H4FK; AND; HIST2H4A; H4/N; H4F2; H4FN; HIST2H4; AND; HIST2H4B; H4/O; H4FO; AND; HIST4H4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	Antigen Affinity Purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	11,367 Da
OMIM	X00038 Genomic DNA
3D Structure	ModBase 3D Structure for P62805
Immunogen	Peptide sequence around site of biotinyl-Lys(12) derived from human Histone H4
Conjugation	Non-conjugated
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Product Categories/Family for anti-HIST1H4A antibody	Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HIST1H4A antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-HIST1H4A antibody	IHC: 1:1-1:100
Related Product Information for anti-HIST1H4A antibody	MBS7108746 is an antibody targeting HIST1H4A. Also known as HIST1H4A(Ab-12) Antibody. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-HIST1H4A 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.



Immunohistochemistry (IHC) of anti-HIST1H4A antibody
IHC image of MBS7108746 staining in paraffin-embedded human glioma cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunohistochemistry (IHC) of anti-HIST1H4A antibody
IHC image of MBS7108746 staining in paraffin-embedded human lung cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIST1H4A. It may not necessarily be applicable to this product.

NCBI GI #	77539758
NCBI GeneID	554313
NCBI Accession #	NP_001029249.1
UniProt Primary Accession #	P62805
UniProt Secondary Accession #	P02304; P02305; Q6DRA9; Q6FGB8; Q6NWP7; A2VCL0
UniProt Related Accession #	P62805
GenBank Nucleotide #	NM_001034077.4
NCBI Official Full Name	histone H4
NCBI Official Synonym Full Names	histone cluster 2 H4 family member b
NCBI Official Symbol	HIST2H4B
NCBI Official Synonym Symbols	H4/o
UniProt Protein Name	Histone H4
UniProt Gene Name	HIST1H4A
UniProt Synonym Gene Names	H4/A; H4FA
NCBI Protein Information	histone H4
NCBI Summary for HIST1H4A	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 H4 family. Transcripts from this gene lack polyA tails; instead, they 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 HIST1H4A	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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