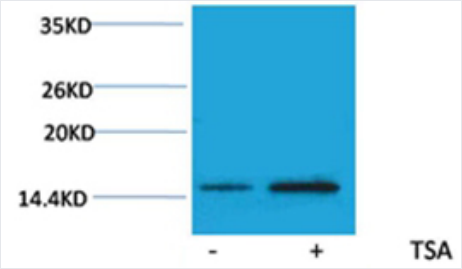
Histone H2A (HIST1H2AI) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Histone H2A (HIST1H2AI), Polyclonal Antibody
Full Product Name	Histone H2A(Acetyl-Lys15) Rabbit Polyclonal Antibody
Product Gene Name	anti-HIST1H2AI antibody
Product Synonym Names	H2A 615 antibody; H2A GL101 antibody; H2A.1 antibody; HIST1H2AE antibody; MGC74460 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Rat, Mouse
Form/Format	Rabbit Antiserum, containing 0.02% sodium azide as Preservative and 50% Glycerol.
Purity/Purification	Affinity purification using immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The Histone H2A(Acetyl Lys15) Rabbit Polyclonal Antibody detects endogenous Histone H2A(Acetyl Lys15) protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	14,091 Da
OMIM	602787
3D Structure	ModBase 3D Structure for P0C0S8
Immunogen Type	peptide
Immunogen Description	A synthetic acetylated peptide corresponding to residues surrounding Lys15 of human histone H2A.
Modification	Acetyl-Lys15
Target Name	Histone H2A(Acetyl-Lys15)
Product Categories/Family for anti-HIST1H2AI antibody	Acetyl-specific Ab
Applications Tested/Suitable for anti-HIST1H2AI antibody	Western Blot (WB)
Application Notes for anti-HIST1H2AI antibody	Western blotting: 1:500~1:1000
Related Product Information for anti-HIST1H2AI antibody	Histone H2A is one of the five main histone proteins involved in the structure of chromatin in eukaryotic cells.Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template.
Other Notes	Small volumes of anti-HIST1H2AI 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 HIST1H2AI purchase	MBS9410416 is an antibody targeting HIST1H2AI. Also known as Histone H2A(Acetyl-Lys15) Rabbit Polyclonal Antibody. Reactive in Human, Rat, Mouse. Host: Rabbit.



Western Blot (WB) of anti-HIST1H2AI antibody
Western blot analysis of extracts from Hela cells, untreated (-) or treated with TSA (1muM, 18 hr; +), using diluted at 1:2,000.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HIST1H2AI. It may not necessarily be applicable to this product.

NCBI GI #	4504239
NCBI GeneID	8329
NCBI Accession #	NP_003500.1
UniProt Primary Accession #	P0C0S8
UniProt Secondary Accession #	P02261; Q2M1R2; Q76PA6
UniProt Related Accession #	P0C0S8
GenBank Nucleotide #	NM_003509.2
NCBI Official Full Name	histone H2A type 1
NCBI Official Synonym Full Names	histone cluster 1, H2ai
NCBI Official Symbol	HIST1H2AI
NCBI Official Synonym Symbols	H2A/c; H2AFC
UniProt Protein Name	Histone H2A type 1
UniProt Synonym Protein Names	Histone H2A/p
Protein Family	Histone H2A deubiquitinase
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 HIST1H2AI	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 HIST1H2AI	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: nucleosome; nucleus Molecular Function: protein binding; enzyme binding; DNA binding; protein heterodimerization activity
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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