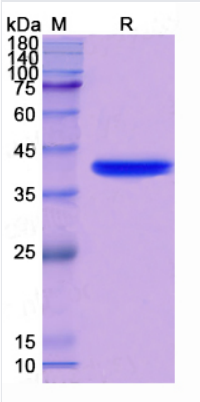
H2AC18 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	H2AC18, Recombinant Protein
Full Product Name	Recombinant Human H2AC18, N-GST
Product Gene Name	H2AC18 recombinant protein
Product Synonym Names	H2AFO; Histone H2A/o; Histone H2A.2; HIST2H2AA3; H2A-clustered histone 18; Histone H2A type 2-A; HIST2H2AA; HIST2H2AA4; H2A-clustered histone 19; H2AC18
Host	E coli
Form/Format	Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	14,095 Da
Sequence Positions	Met1-Lys130
Chromosome Location	Chromosome: 1; NC_000001.10 (149813785..149814318, complement). Location: 1q21.2
OMIM	142720
3D Structure	ModBase 3D Structure for Q6FI13
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for H2AC18 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for H2AC18 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for H2AC18 recombinant protein	MBS1574875 is a recombinant protein targeting H2AC18. Also known as Recombinant Human H2AC18, N-GST. Host: E coli.
Other Notes	Small volumes of H2AC18 recombinant protein 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.



SDS-Page of H2AC18 recombinant protein
SDS PAGE for recombinant Human H2AC18 protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for H2AC18. It may not necessarily be applicable to this product.

NCBI GI #	4504251
NCBI GeneID	8337
NCBI Accession #	NP_003507.1
UniProt Primary Accession #	Q6FI13
UniProt Secondary Accession #	P20670; B2R5F0
UniProt Related Accession #	Q6FI13
GenBank Nucleotide #	NM_003516.2
NCBI Official Full Name	histone H2A type 2-A
NCBI Official Synonym Full Names	histone cluster 2, H2aa3
NCBI Official Symbol	HIST2H2AA3
NCBI Official Synonym Symbols	H2A; H2A.2; H2A/O; H2A/q; H2AFO; H2a-615; HIST2H2AA
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; histone 2, H2aa3; H2A histone family, member O
NCBI Summary for H2AC18	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. [provided by RefSeq, Jul 2008]

UniProt Comments for H2AC18	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
Research Articles on H2AC18	**1.** Ubiquitin-dependent signaling during the DNA damage response (DDR) to double-strand breaks is initiated by two E3 ligases, RNF8 and RNF168, targeting histone H2A and H2AX. Study shows that ubiquitin chains per se are insufficient for signaling, but RNF168 target ubiquitination is required for DDR damage.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/h2ac18/1574875