

Product datasheet for PH310576

MACROH2A1 (NM_004893) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	H2AFY MS Standard C13 and N15-labeled recombinant protein (NP_004884)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC210576
Predicted MW:	39.5 kDa
Protein Sequence:	>RC210576 protein sequence Red=Cloning site Green=Tags(s)
	MSSRGGKKKSTKTSRSKAGVIFPVGRMLRYIKKGHPKYRIGVGPVYMAAVLEYLTAEILELAGNAARD NKKGRVTPRHILLAVANDEELNQLLKGVTIASGGVLPNIHPELLAKKRGSKGKLEAIITPPPAKKAKSPS QKKPVSKKAGGKKGARKSKKKQGEVSKAASADSTTEGTPADGFTVLSTKSLFLGQKLNLIHSEISNLAGF EVEAIINPTNADIDLKDDLGNLTKKGGKEFVEAVLELRKKNGLLEVAGAAVSAGHGLPAKFVIHCNSPV WGADKCEELLGKTVKNCLALADDKCLKSIAFPSIGSRNGFPKQTAAQLILKAISSYFVSTMSSSIKTVY FVLFDSSESIGIYVQEMAKLDAN
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004884
RefSeq Size:	1923
RefSeq ORF:	1116
Synonyms:	H2A.y; H2A/y; H2AF12M; H2AFY; MACROH2A1.1; macroH2A1.2; mH2A1
Locus ID:	9555



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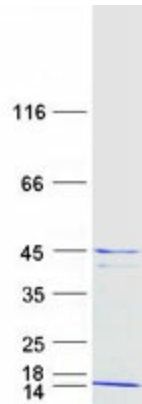
UniProt ID: [O75367](#)

Cytogenetics: 5q31.1

Summary: Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Nucleosomes consist of approximately 146 bp of DNA wrapped around a histone 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 encodes a replication-independent histone that is a member of the histone H2A family. It replaces conventional H2A histones in a subset of nucleosomes where it represses transcription and participates in stable X chromosome inactivation. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2015]

Protein Pathways: Systemic lupus erythematosus

Product images:



Coomassie blue staining of purified H2AFY protein (Cat# [TP310576]). The protein was produced from HEK293T cells transfected with H2AFY cDNA clone (Cat# [RC210576]) using MegaTran 2.0 (Cat# [TT210002]).