

Recombinant Human MACROH2A2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MACROH2A2-4589H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	H2AFY2 MS Standard C13 and N15-labeled recombinant protein (NP_061119) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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 may participate in stable X chromosome inactivation.
Molecular Mass	40.1 kDa
AA Sequence	MSGRSGKKKMSKLSRSARAGVIFPVGRLMRYLKKGTFKYRISVGAPVYMAAVIEYLA AEILELAGNAARDNKKARIAPRHILLAVANDEELNQLLKGVTIASGGVLPRIHPELLAK KRGTKGKSETILSPPEKRGKATSGKKGGKKSAAKPRTSKKSKPKDSDKEGTSN STSEDGPGDGFTILSSKSLVLGQKLSLTQSDISHIGSMRVEGIVHPTTAEIDLKEDIGK

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ALEKAGGKEFLETVKELRKSQGPLEVAEAAVSQSSGLAAKFVIHCHIPQWGSDKCEE
 QLEETIKNCLSAEDKKLKSVAFPPFSPGRNCFPKQTAAQVTLKAISAHFDDSSASSL
 KNVYFLLFDSESIGIYVQEMAKLDAKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [MACROH2A2 macroH2A.2 histone \[Homo sapiens \(human\) \]](#)

Official Symbol [MACROH2A2](#)

Synonyms H2AFY2; H2A histone family, member Y2; core histone macro-H2A.2; macroH2A2; mH2A2; histone macroH2A2; core histone macroH2A2.2;

Gene ID [55506](#)

mRNA Refseq [NM_018649](#)

Protein Refseq [NP_061119](#)

MIM [616141](#)

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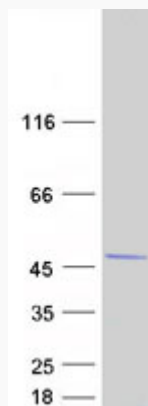
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UniProt ID

Q9P0M6

SDS-PAGE

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