

Recombinant Mouse MacroH2a2 Protein, Myc/DDK-tagged

Cat. No. MacroH2a2-3347M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length H2A histone family, member Y2 (H2afy2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
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
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [Macroh2a2 macroH2A.2 histone \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Macroh2a2](#)

Synonyms Macroh2a2; macroH2A.2 histone; H2afy; H2afy2; core histone macro-H2A.2; H2A histone family, member Y2; histone macroH2A2; mH2A2

Gene ID [404634](#)

mRNA Refseq [NM_207000](#)

Protein Refseq [NP_996883](#)

UniProt ID [Q8CCK0](#)

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