

Recombinant Human MACROH2A1 Protein (Ile109-Leu369), N-GST tagged

Cat. No. MACROH2A1-3755H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human MACROH2A1 (Ile109-Leu369) fused with the N-GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ile109-Leu369
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 participates in stable X chromosome inactivation. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	Lyophilized powder/frozen liquid
Molecular Mass	54.59 kDa

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Purity	>90% as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	0.01M PBS, pH 7.4, 0.02% NLS
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	MACROH2A1 macroH2A.1 histone [Homo sapiens (human)]
Official Symbol	MACROH2A1
Synonyms	MACROH2A1; macroH2A.1 histone; H2A.y; H2A/y; H2AFY; mH2A1; H2AF12M; MACROH2A1.1; macroH2A1.2; core histone macro-H2A.1; H2A histone family member Y; histone H2A.y; histone macroH2A1; histone macroH2A1.1; histone macroH2A1.2; medulloblastoma antigen MU-MB-50.205
Gene ID	9555
mRNA Refseq	NM_138609
Protein Refseq	NP_613075

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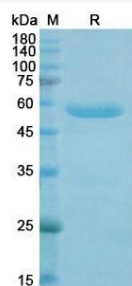
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MIM 610054

UniProt ID O75367

SDS-PAGE



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