

Recombinant Human MRVI1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. MRVI1-2738H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	MRVI1 MS Standard C13 and N15-labeled recombinant protein (NP_001092049) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is similar to a putative mouse tumor suppressor gene (Mrvi1) that is frequently disrupted by mouse AIDS-related virus (MRV). The encoded protein, which is found in the membrane of the endoplasmic reticulum, is similar to Jaw1, a lymphoid-restricted protein whose expression is down-regulated during lymphoid differentiation. This protein is a substrate of cGMP-dependent kinase-1 (PKG1) that can function as a regulator of IP3-induced calcium release. Studies in mouse suggest that MRV integration at Mrvi1 induces myeloid leukemia by altering the expression of a gene important for myeloid cell growth and/or differentiation, and thus this gene may function as a myeloid leukemia tumor suppressor gene. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene, and alternative translation start sites, including a non-AUG (CUG) start site, are used.
Molecular Mass	97.7 kDa
AA Sequence	MGMDLTCPFGVSPACGAQASWSIFGADAAEVPGTRGHSQQEAAMPHIPEDEEPPG EPQAAQSPAGQGPPPTAGVSCSPTPTIVLTGDATSPGETDKNLANRVHSPHKRLSH

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RHLKVSTASLTSDVPAGHIIDLVDQLPDISISEEDKKKNLALLEEAKLVSERFLTRRG
 RKSRSSPGDSPSAVSPNLSPSASPTSSRSNSLTVPTPPGLDVCSGPPSPLPGAPPQ
 KGDEADVSSPHPGEPNVPKGLADRKQNDQQRKVSQGR LAPRPPPVEKSKEIAIEQKE
 NFDPLQYPETTPKGLAPVTNSSGKMALNSPQPGPVESELGKQLLKTGWEGSPLPRS
 PTQDAAGVGPPASQGRGPAGEPMGPEAGSKAELPPTVSRPPLLRLGLSWDSGPEE
 PGPRLQKVLAKLPLAEEEEKRFAGKAGGKLAKAPGLKDFQIQVQPVVMQKLTCLREE
 HILMRNQNLVGLKLPDLSEAAEQEKGLPSELSPAIEEEEEESKGLDVMNIDVLLRKL
 RVHRSPLGSAPPLTEKEVENVFVQLSLAFRNDSTLESRLNQAERERNLTEENTEKE
 LENFKASITSSASLWHHCEHRETYQKLLEDIAVLHRLAARLSSRAEVVGAVRQEKRM
 SKATEVMMQYVENLKRTEYKDHAELEMEFKLANQNSSRSCGSEDGVPRTARSMS
 LTLGKNMPRRRVSVAVVPKFNALNLPQGTPSSSSIPSLPALSESPNGKGLPVTSL
 PALLENGKTNGDPDCEASAPALTSLCLEELSQETKARMEEEAYSQGFQEGKKTKTE
 LQDLKEEEEEQKSESPEEPEEEVEETEEEEKGPSSKLEELVHFLQVMYPKLCQHWQ
 VIWMMAAVMLVLTVVGLYNSYNSCAEQADGPLGRSTCSAAQRDSWWSSGLQHE
 QPTEQTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 MRV11 murine retrovirus integration site 1 homolog [Homo sapiens (human)]

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Official Symbol	MRVI1
Synonyms	MRVI1; murine retrovirus integration site 1 homolog; protein MRVI1; inositol 1; 4; 5 triphosphate associated cGMP kinase substrate; IP3R associated cGMP kinase substrate; IRAG; JAW1L; JAW1-related protein MRVI1; IP3R-associated cGMP kinase substrate; inositol 1,4,5-triphosphate receptor-associated cGMP kinase substrate; inositol 1,4,5-trisphosphate receptor-associated cGMP kinase substrate;
Gene ID	10335
mRNA Refseq	NM_001098579
Protein Refseq	NP_001092049
MIM	604673
UniProt ID	Q9Y6F6
SDS-PAGE	