

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

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | MRVI1 MS Standard C13 and N15-labeled recombinant protein (NP_001092049) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | <p>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.</p> |
| <b>Molecular Mass</b>   | 97.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | MGMDLTCPFGVSPACGAQASWSIFGADAAEVPGTRGHSQQEAAMPHIPEDEEPPG<br>EPQAAQSPAGQGPPPTAGVSCSPTPTIVLTGDATSPGETDKNLANRVHSPHKRLSH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RHLKVSTASLTSDVPAGHIIDLVDQLPDISEEDKKKNLALLEEAKLVSERFLTRRG  
 RKSRSSPGDSPSAVSPNLSPSASPTSSRSNSLTVPTPPGLDVCSGPPSPLPGAPPQ  
 KGDEADVSSPHPGEPNVPKGLADRKQNDQRKVSQGR LAPRPPPVEKSKEIAIEQKE  
 NFDPLQYPETTPKGLAPVTNSSGKMALNSPQPGPVESELGKQLLKTGWEGSPLPRS  
 PTQDAAGVGPPASQGRGPAGEPMGPEAGSKAELPPTVSRPPLLRLGLSWDSGPEE  
 PGPRLQKVLAKLPLAEEEEKRFAGKAGGKLAKAPGLKDFQIQVQPVVMQKLTKLREE  
 HILMRNQNLVGLKLPDLSEAAEQEKGLPSELSPAIEEEEEESKSGLDVMPNISDVLLRKL  
 RVHRSLPGSAPPLTEKEVENVFVQLSLAFRNDSTLESRLNQAERERNLTEENTEKE  
 LENFKASITSSASLWHHCEHRETYQKLLEDIAVLHRLAARLSSRAEVVGAVRQEKRM  
 SKATEVMMQYVENLKRTEYKDHAELEMEFKLANQNSSRSCGSEDGVPRTARSMS  
 LTLGKNMPRRRVSVAVVPKFNALNLPQGTPSSSSIPSLPALSESPNGKGSPLVTSAL  
 PALLENGKTNGDPDCEASAPALTSLCLEELSQETKARMEEEAYSQGFQEGKKTKKE  
 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.

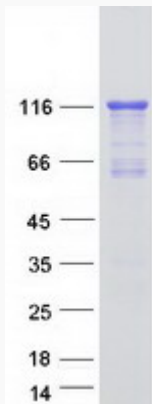
## GENE INFORMATION

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

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|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b> | MRVI1                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 10335                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>     | NM_001098579                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>  | NP_001092049                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MIM</b>             | 604673                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>      | Q9Y6F6                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>SDS-PAGE</b>        |                                                                                                                                                                                                                                                                                                                       |