

## Product datasheet for **TP320170L**

### **IRAG1 (NM\_001098579) Human Recombinant Protein**

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human murine retrovirus integration site 1 homolog (MRVI1), transcript variant 1, 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >RC220170 representing NM\_001098579  
**Red**=Cloning site **Green**=Tags(s)

MGMDLTCPFGVSPACGAQASWSIFGADAAEVPGTRGHSQQEAAMPHIPEDEEPPGEPQAAQSPAGQGP  
PT  
AGVSCSPTPTIVLTGDATSPEGETDKNLANRVHSPHKRLSHRHLKVSTASLTSVDPAGHIIDLVDQLPD  
ISISEEDKKKNLALLEEAKLVSERFLTRRGRKSRSSPGDSPSAVSPNLSPSASPTSSRSNSLTVPTPPGL  
DVCSGPPSPLPGAPPQKGDEADVSSPHPGEPNVPKGLADRKQNDQRKVSQGR LAPRPPPV EKSKEIAIEQ  
KENFDPLQYPETTPKGLAPVTNSSGKMALNSPQPGPVESELGKQLLKTGWEGSPLPRSPTQDAAGVGPP  
A  
SQGRGPAGEPMGPEAGSKAELPPTVSRPPLLRLGLSWDSGPEEPGPRLQKVLAKLPLAEEEEKRFAGKAGGK  
LAKAPGLKDFQIQVQPV RMQKLTKLREEHILMRNQNLVGLKLPDLSEAAEQEKGLPSELSPAIEEEESKS  
GLDVMPNISDVLLRKL RVHRS LPGSAPPLTEKEVENVFVQLSLAFRND SYTLES RINQAERERNLTEENT  
EKELENFKASITSSASLWHHCEHRETYQKLLEDIAVLHRLAARLSSRAEVVGAVRQEK RSKATEVMMQY  
VENLKRTYEKDHAELMEFKLANQNSSRSCGPSEDGVPRTARMSLTLGKNMPPRRRVSAVVPKFNALN  
L  
PGQTPSSSSIPSLPALSESPNGKGLPVT SALPALLENGKTNGDPDCEASAPALTLSCLEELSQETKARM  
EEEAYSKGFQEG LKKTKE LQDLKEEEEEQKSESPEEPEEVEETEEEEKGP RSKLEELVHFLQVMYPKLC  
QHWQVIWMMAAVMLVLT VVLGLYNSYNSCAEQADG PLGRSTCSAAQRDSWWSSGLQHEQPTEQ

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 97.7 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

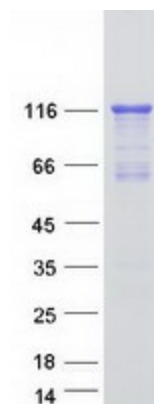
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001092049</a>
<b>Locus ID:</b>	10335
<b>UniProt ID:</b>	<a href="#">Q9Y6F6</a>
<b>RefSeq Size:</b>	6042
<b>Cytogenetics:</b>	11p15.4
<b>RefSeq ORF:</b>	2709
<b>Synonyms:</b>	IRAG; JAW1L; MRV11
<b>Summary:</b>	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. [provided by RefSeq, May 2011]
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Vascular smooth muscle contraction

**Product images:**


Coomassie blue staining of purified MRV11 protein (Cat# [TP320170]). The protein was produced from HEK293T cells transfected with MRV11 cDNA clone (Cat# [RC220170]) using MegaTran 2.0 (Cat# [TT210002]).