

## 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<br>Red=Cloning site Green=Tags(s)   |

MGMDLTCPFVSPACGAQASWSIFGADAAEVPGTRGHSQQEAAMPHIPEDEEPPGEPQAAQSPAGQGPPPT  
AGVSCSPTPTIVLTGDATSPEGETDKNLNANRVHSPHKRLSHRHLKVSTASLTSVDPAGHIIDLVDLNDQLPD  
ISISEEDKKKNLALLEEAKLVSERFLTRRGRKSRSSPGDSPSAVSPNLSPASPTSSRSNSLTVPTPPGL  
DVCSGPPSPLPGAPPQKGDDEADVSSPHGEPNVPKGLADRKQNDQRKVSQGRAPRPPVVEKSKEIAIEQ  
KENFDPLQYPETTPKGLAPVTNSSGKMALNSPQPGPVESELGKQLLKTGWESPLPRSPTQDAAGVGPPA  
SQGRGPAGEPMGPEAGSKAELPPTVSRPPLLRGLSWDSGPEEPGPRQLQKVLAKLPLAEEEEKRFAGKAGGK  
LAKAPGLKDFQIQVQPVVMQKLTKLREEHILMRNQNLVGLKLPDLSEAAEQEKGLPSELSPAIEEEESKS  
GLDVMPNISDVLLRKLVRHSLPGSAPPLTEKEVENVFVQLSLAFRNDSTYLETSRINQAERERNLTEENT  
EKELFNKASITSSASLWHHCEHRETYQKLEEDIAVLHRLAARLSSRAEVGAVRQEKRMKATEVMMQY  
VENLKRITYEKDHAELMEFKLANQNSSRSCGSPEDGVPRTARSMSLTLGKNMPPRRRVSAVVPKFNALNL  
PGQTPSSSSIPSLPALSEPNGKSLPVTSPALPALLENGKTNQDPDCEASAPALTLSCLEELSQETKARM  
EEEAYSKGFQEGKTKELQDLKEEEEEQKSESPEEPEVEEETEEEEKGRSSKLEELVHFLQVMYPKLC  
QHWQVIWMMMAAVMLVLTVVLGLYNSYNCAEQADGPLGRSTCSAAQRDSWWSSGLQHEQPTEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

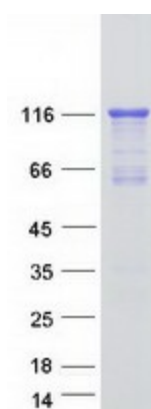
|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 97.7 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Preparation:   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |



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|                          |  |
|--------------------------|--|
| <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; MRV1  |
| <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 MRV1 protein (Cat# [TP320170]). The protein was produced from HEK293T cells transfected with MRV1 cDNA clone (Cat# [RC220170]) using MegaTran 2.0 (Cat# [TT210002]).