

## Product datasheet for TP309734

### JIP1 (MAPK8IP1) (NM\_005456) Human Recombinant Protein

#### Product data:

|                       |   |
|-----------------------|---|
| Product Type:         | Recombinant Proteins  |
| Description:          | Recombinant protein of human mitogen-activated protein kinase 8 interacting protein 1 (MAPK8IP1), 20 µg |
| Species:              | Human   |
| Expression Host:      | HEK293T   |
| Expression cDNA       | >RC209734 protein sequence  |
| Clone or AA Sequence: | Red=Cloning site Green=Tags(s)  |

MAERESGGLGGGAASPPAASPFLGLHIASPPNFRLTHDISLEEFEDLSEITDECGISLQCKDTLSLRP  
PRAGLLSAGGGGAGSRLQAEMQLMDLIDATGDTPGAEDDEEDDDEERAARRPGAGPPKAESGQEPASRGQ  
GQSQGQSQGPGSGD TYRPKRPTTLNLFQVPRSQDTLNNNSLGGKHSWQDRVSRSSSPLKTGEQTPPHEH  
ICVSDLESPQSGPAPTTGRGTSTDSPCRRSTATQMAPPGGPPAATPGGRGHSHRDRIHYQADVRLATEE  
IYLTPVQRPPDAAEPTSAFLPPTESRMSVSSDPDPAAYPSTAGRPHPSISEEEEEGFDCMSSPERAEPGG  
GWRGSLGEP PPPRASLSSDTSALSVDYKTLVWDEHAQLELVSLRPCFGDYSDSDSATVYDNCASVS  
SPYESAIGEEYEEAPRPQPPACLEDSTPDEPDVHFSKFLNVFMSGRSRSSSAESFGLFSCIINGEEQE  
QTHRAIRFRVPRHEDELELEVDPLLVELQAEDYWYEAYNMRTGARGVFPAYYAEVTKPEHMAALAKN  
SDWVDQFRVKFLG SVQVPYHKGNVLCAMQKIATTRRLTVHFNPPSSCVLEINVRGVKIGVKADDSQEA  
KGNKCSHFFQLKNISFCGYHPKNNKYFGFITKHPADNRFACHV FVSEDSTKALAESVGRAFQQFYKQFVE  
YTCPTEDIYLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

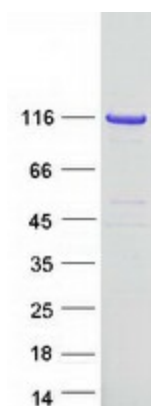
|                |  |
|----------------|--|
| Tag:           | C-Myc/DDK  |
| Predicted MW:  | 77.3 kDa   |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:        | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:        | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Preparation:   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                     |
| Note:          | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |



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|                          |   |
|--------------------------|---|
| <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_005447</a>   |
| <b>Locus ID:</b>         | 9479  |
| <b>UniProt ID:</b>       | <a href="#">Q9UQF2</a> , <a href="#">Q6NUQ9</a>   |
| <b>RefSeq Size:</b>      | 3234  |
| <b>Cytogenetics:</b>     | 11p11.2   |
| <b>RefSeq ORF:</b>       | 2133  |
| <b>Synonyms:</b>         | IB1; JIP-1; JIP1; PRKM8IP   |
| <b>Summary:</b>          | This gene encodes a regulator of the pancreatic beta-cell function. It is highly similar to JIP-1, a mouse protein known to be a regulator of c-Jun amino-terminal kinase (Mapk8). This protein has been shown to prevent MAPK8 mediated activation of transcription factors, and to decrease IL-1 beta and MAP kinase kinase 1 (MEKK1) induced apoptosis in pancreatic beta cells. This protein also functions as a DNA-binding transactivator of the glucose transporter GLUT2. RE1-silencing transcription factor (REST) is reported to repress the expression of this gene in insulin-secreting beta cells. This gene is found to be mutated in a type 2 diabetes family, and thus is thought to be a susceptibility gene for type 2 diabetes. [provided by RefSeq, May 2011] |
| <b>Protein Families:</b> | Druggable Genome  |
| <b>Protein Pathways:</b> | MAPK signaling pathway  |

### Product images:



Coomassie blue staining of purified MAPK8IP1 protein (Cat# TP309734). The protein was produced from HEK293T cells transfected with MAPK8IP1 cDNA clone (Cat# [RC209734]) using MegaTran 2.0 (Cat# [TT210002]).