

Recombinant Human TJP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TJP1-6723H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TJP1 MS Standard C13 and N15-labeled recombinant protein (NP_003248) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the membrane-associated guanylate kinase (MAGUK) family of proteins, and acts as a tight junction adaptor protein that also regulates adherens junctions. Tight junctions regulate the movement of ions and macromolecules between endothelial and epithelial cells. The multidomain structure of this scaffold protein, including a postsynaptic density 95/disc-large/zona occludens (PDZ) domain, a Src homology (SH3) domain, a guanylate kinase (GuK) domain and unique (U) motifs all help to co-ordinate binding of transmembrane proteins, cytosolic proteins, and F-actin, which are required for tight junction function. Alternative splicing results in multiple transcript variants encoding different isoforms.
Molecular Mass	195.3 kDa
AA Sequence	MSARAAAAKSTAMEETAIWEQHTVTLHRAPGFGFGIAISGGRDNPHFQSGETSIVIS DVLKGGPAEGQLQENDRVAMVNGVSMNDNEHAFVQQLRKSGKNAKITIRKKKV QIPVSRPDPEPVSDNEEDSYDEEIHDPGRSGVGNRRSEKIWPRDRSASRERSLS PRSDRRSVASSQPAKPTKVTLVKSRKNEEYGLRLASHIFVKEISQDSLAAARDGNIQE

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

GDVVLKINGTVTENMSLTD AKTLIERSKGKLMVVQRDERATLLNVPDLSDSIHSANA
 SERDDISEIQSLASDHSGRSHDRPPRRSRSPDQRSEPSDHSRHSPQQPSNGSL
 RSRDEERISKPGAVSTPVKHADDHTPKTVEEVTVRNEKQTPSLPEPKPVYAQVGQ
 PDVDLPVSPSDGVLPNSTHEDGILRPSMKLVKFRKGDSVGLRLAGGNDVGIFVAGVL
 EDSPAAKEGLEEGDQILRVNNVDFTNIIEEEAVLFLLDLPKGEEVTILAQKKKD VYRRI
 VESDVGDSFYIRTHFEYEKESPYGLSFNKGEVFRVVDTLYNGKLGSWLAIRIGKNHK
 EVERGIIPNKNRAEQLASVQYTLPKTAGGDRADFWFRGLRSSKRNLRSREDLSA
 QPVQTKFPAYERVVLREAGFLRPVTIFGPIADVAREKLAREEPDIYQIAKSEPRDAGT
 DQRSSGIIRLHTIKQIIDQDKHALLDVTPNAVDRLNYAQWYPIVVFLNPDSKQGVKTM
 RMRLCPESRKSARKLYERSHKLKNNHHLFTTTINLNSMNDGWYGALKEAIQQQQN
 QLVVWSEGKADGATSDDLDLHDDRLSYLSAPGSEYSMYSTDSRHTSDYEDTDTEG
 GAYTDQELDETLNDEVGTPPESAITRSSEPVEDSSGMHHENQTYPPYSPQAQPQ
 PIHRIDSPGFKPASQQKAEASSVPYLSPETNPASSTS AVNHNVNLTNVRLEEPTPA
 PSTSYSPQADSLRTPSTEA AHIMLRDQEPSLSSHVDPTKVYRKDPYPEEMMRQNHV
 LKQPAVSHPGHRPDKEPNLTYPQLPYVEKQASRDLEQPTYRYESSSYTDQFSRNY
 EHRLRYEDRVPMYEEQWSYDDKQPYPSRPPFDNQHSQDLSRQHPEESSERGY
 FPRFEEPAPLSYDSRPRYEQAPRASALRHEEQPAPGYDTHGRLRPEAQPHPSAGP
 KPAESKQYFEQYSRSYEQVPPQGFTSRAGHFEPLHGAAVPLIPSSQHKPEALPS
 NTKPLPPPPTQTEEEEDPAMKPQSVLTRVKMFENKRSASLETKKDVNDTGSFKPPE
 VASKPSGAPIIGPKPTSQNQFSEHDKTLYRIPEPQKPQLKPPEDIVRSNHYDPEEDEE
 YYRKQLSYFDRRSFENKPPAHIAASHLSEPAKPAHSQNQSNFSSYSSKGKPPEADG
 VDRSFGEKRYEPIQATPPPPPLPSQYAQPSQPVTASLHIHSGAHGEGNSVSLDF
 QNSLVSKPDPPPSQNKPATFRPPNREDTAQAAFYPQKSFPDKAPVNGTEQTQKTVT
 PAYNRFTPKPYTSSARPFERKFESPKFNHLLPSETAHKPDLSKPTPTSPKTLVKSH
 SLAQPPEFD SGVETFSIHA EKPKYQINNISTVPKAIPVSPSAVEEDEDEDGHTVVATA
 RGIFNSNGGVLSSIETGVSIIPQGAIEGVEQEIYFKVCRDNSILPPLDKEKGETLLSP
 LVMCGPHGLKFLKPVELRLPHCDPKTWQNKCLPGDPNYLVGANCVSVLIDHFTRTR
 PLEQKLISEEDLAANDILDYKDDDDKV

Purity

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

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

 Email: info@creative-biomart.com
 Fax: 1-631-938-8127

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

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.

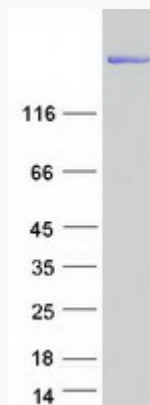
GENE INFORMATION

Gene Name	TJP1 tight junction protein 1 [Homo sapiens (human)]
Official Symbol	TJP1
Synonyms	TJP1; tight junction protein 1 (zona occludens 1); tight junction protein ZO-1; DKFZp686M05161; MGC133289; tight junction protein ZO 1; ZO 1; zona occludens 1; zona occludens protein 1; zonula occludens 1 protein; zonula occludens protein 1; ZO-1;
Gene ID	7082
mRNA Refseq	NM_003257
Protein Refseq	NP_003248
MIM	601009
UniProt ID	Q07157

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

SDS-PAGE

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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