

Recombinant Full Length Human TJP1 Protein, C-Flag-tagged

Cat. No. TJP1-384HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TJP1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	195.3 kDa
AA Sequence	MSARAAAAKSTAMEETAWEQHTVTLHRAPGFGFGIAISGGRDNPHFQSGETSIVIS DVLKGGPAEGQLQ ENDRVAMVNGVSMNDNEHAFVQQLRKSGKNAKITIRKKKV QIPVSRPDPEPVSDNEEDSYDEEIHDPGRSGRSGVNNRRSEKIWPRDRSASRERSLS PRSDRRSVASSQPAKPTKVTLVKSRKNEEYGLRLASHIFVKE ISQDSLAARDGNIQE

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GDVVLKINGTVTENMSLTD AKTLIERSKGKLMVVQRDERATLLNVPDLSDSIHS AN
 ASERDDISEIQSLASDHSGRSHDRPPRRSRSPDQRSEPSDHSRHSPQQPSNGS
 LRSRDEERISKPG AVSTPVKHADDHTPKTVEEVTVRNEKQTPSLPEPKPVYAQVG
 QPDVDLPVSPSDGVLPNSTHEDGILRP SMKLVKFRKGDSVGLRLAGGNDVGIFVAG
 VLEDSPAAKEGLEEGDQILRVNNVDFTNIIEEEAVLFLLDL PKGEEVTLAQKKKDVY
 RRIVESDVGDSFYIRTHFEYEKESPYGLSFNKGEVFRVVDTLYNGKLGSWLAI RIGK
 NHKEVERGIIPKNRAEQLASVQYTLPKTAGGDRADFWFRGLRSSKRNLRKSRED
 LSAQPVQTKF PAYERVVLREAGFLRPVTIFGPIADVAREKLAREEPDIYQIAKSEPRD
 AGTDQRSSGIIRLHTIKQIIDQ DKHALLDVTPNAVDRLNYAQWYPIVVFLNPDSKQGV
 KTMRMRLCPESRKSARKLYERSHKLRKNNHHLFT TTINLNSMNDGWYGALKEAIQQ
 QQNQLVWVSEGKADGATSDDLHLHDDRLSYLSAPGSEYSMYSTDSRHT SDYEDT
 DTEGGAYTDQELDETINDEVGTPPESAITRSSEPVREDSSGMHHEHQTYPPYSPQA
 QPQPIHRI DSPGFKPASQQKAEASSVPYLSPETNPASSTS AVNHNVNLTNVRLEE
 PTPAPSTS YSPQADSLRTPSTE AAHIMLRDQEPSLSSHVDPTKVYRKDPYPEEMMR
 QNHVLKQPAVSHPGHRPDKEPNLT YEPQLPYVEKQA SRDLEQPTYRYESSSYTDQ
 FSRNYEHLRYEDRVPMYEEQWSYDDKQPYPSRPPFDNQHSQDLSRQHP EES
 SERGYFPRFEEPAPLSYDSRPRYEQAPRASALRHEEQPAPGYDTHGRLRPEAQPH
 PSAGPKPAESKQ YFEQYSRSYEQVPPQGFTSRAGHFEPLHGAAVPPPLIPSSQHK
 PEALPSNTKPLPPPPTQTEEEEDPAMK PQSVLTRVKMFENKRSASLETKKDVNDTG
 SFKPPEVASKPSGAPIIGPKPTSQNQFSEHDKTL YRIPEPQ KPQLKPPEDIVRSNHY
 DPEEDEEYRKQLSYFDRRSFENKPPAHIAASHLSEPAKPAHSQNQSNFSSYSS KG
 KPPEADGVDRSFGEKRYEPIQATPPPPPLPSQYAQPSQPVTASLHIHSGGAHGEG
 NSVSLDFQNSLV SKPDPPPSQNKPATFRPPNREDTAQAAFYPQKSFPDKAPVNGT
 EQTQKTVTPAYNRFTP KPYTSSARPF RKFESPKFNHLLPSETAHKPDLSKTPPTS
 PKTLVKSHSLAQPPEFDSGVETFSIHA EKPKYQINNISTV PKAIPVSPSAVEEDED
 GHTVVATARGIFNSNGGVLSSIETGVSIIPQGA IPEGVEQEYFKVCRDNS ILPLDK
 EKGETLLSPLVMCGPHGLKFLKPVELRLPHCDPKTWQNKCLPGDPNYLVGANCVSV
 LIDHFTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

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

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Adherens junction, Epithelial cell signaling in Helicobacter pylori infection, Gap junction, Tight junction, Vibrio cholerae infection
Full Length	Full L.

GENE INFORMATION

Gene Name	TJP1 tight junction protein 1 [Homo sapiens (human)]
Official Symbol	TJP1
Synonyms	ZO-1
Gene ID	7082
mRNA Refseq	NM_003257.5
Protein Refseq	NP_003248.3

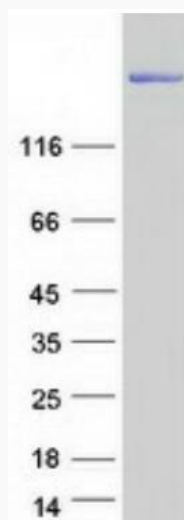
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MIM 601009

UniProt ID Q07157



Coomassie blue staining of purified TJP1 protein.

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