

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 DVLKGGPAEGQLQENDRVAMVNGVSMDNVEHAFVQQLRKSGKNAKITIRKKKV QIPVSRPDPEPVSDNEEDSYDEEIHDPGRSGVNVNRRSEKIWPRDRSASRERSLS PRSDRRSVASSQPAKPTKVTLVKSRKNEEYGLRLASHIFVKEISQDSLAAARDGNIQE

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GDVVLKINGTVTENMSLTDAKTLIERSKGLKMMVQRDERATLLNVPDLSDSIHSANA
SERDDISEIQSLASDHSGRSHDRPPRRSRSPDQRSEPSDHSRHSPPQPSNGSL
RSRDEERISKPGAVSTPVKHADDHTPKTVEEVTVRNEKQTPSLPEPKPVYAQVGQ
PDVDLPVSPSDGVLPNSTHEDGILRPSMKLVKFRKGDVGLRLAGGNDVGIFVAGVL
EDSPAAKEGLEEGDQILRVNNVDFTNIIRREEAVLFLDLPKGEEVTLAQKKKDVYRRI
VESDVGDSFYIRTHFEYEKESPYGLSFNKGEVFRVVDTLYNGKLGSLAIRIGKNHK
EVERGIIPKNRAEQLASVQYTLPKTAGGDRADFWFRGLRSSKRNLRSREDLSA
QPVQTKFPAYERVVLREAGFLRPVTIFGPIADVAREKLAREEPDIYQIAKSEPRDAGT
DQRSSGIIRLHTIKQIIDQDKHALLDVTPNAVDRLNYAQWYPIVVFLNPDSKQGVKTM
RMRLCPESTRKSARKLYERSHKLKRNHHLFTTTINLNSMNDGWYGALKEAIQQQN
QLVWVSEGKADGATSDDLHLHDDRLSYLSAPGSEYSMYSTDSRHTSDYEDTDTEG
GAYTDQELDETLNDEVGTTPESAITRSSEPVEDSSGMHHENQTYPPYSPQAQPQ
PIHRIDSPGFKPASQQKAEASSVPYLSPETNPASSTSAVNHNVNLTNVRLEEPTPA
PSTSYSPQADSLRTPSTEAHIMLRDQEPSLSSHVDPTKVYRKDPYPEEMMRQNHV
LKQPAVSHPGHRPDKEPNLTYEPQLPYVEKQASRDLEQPTYRYESSSYTDQFSRNY
EHRLRYEDRVPMYEEQWSYDDKQPYPSRPPFDNQHSQDLDSRQHPEESSERGY
FPRFEPPAPLSYDSRPRYEQAPRASALRHEEQPAPGYDTHGRLRPEAQPHPSAGP
KPAESKQYFEQYSRSYEQVPPQGFTSRAGHFEPLHGAAVPLIPSSQHKPEALPS
NTKPLPPPPTQTEEEEDPAMKPQSVLTRVKMFENKRSASLETKKDVNDTGSFKPPE
VASKPSGAPIIGPKPTSQNFSEHDKTLYRIPEPQKPKLPEDIVRSNHYPDEE
YYRKQLSYFDRRSFENKPPAHIAASHLSEPAKPAHSQNSNFSSYSSKGPPEADG
VDRSFGEKRYEPIQATPPPPPLPSQYAQPSQPVTASLHIHSGAHGEGNSVSLDF
QNSLVSKPDPPPSQNKPATFRPPNREDTAQAAFYPQKSFPDKAPVNGTEQTQKTVT
PAYNRFTPKPYTSSARPFERKFESPKFNHLLPSETAHKPDLSKPTPTSPKTLVKSH
SLAQPEFDSGVETFSIHAEKPKYQINNISTVPKAIPVSPSAVEEDEDGHTVVATA
RGIFNSNGGVLSSIETGVSIIPQGAIEGVEQEYFKVCRDNSILPPLDKEKGETLLSP
LVMCGPHGLKFLKPVELRLPHCDPKTWQNKCLPGDPNYLVGANCVSVLIDHFTRTR
PLEQKLISEEDLAANDILDYKDDDDKV

Purity

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

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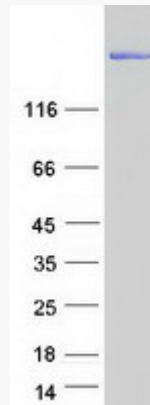
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	TJP1 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

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SDS-PAGE



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