

Recombinant Human TJP3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TJP3-3077H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TJP3 MS Standard C13 and N15-labeled recombinant protein (NP_055243) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a member of the membrane-associated guanylate kinase-like (MAGUK) protein family which is characterized by members having multiple PDZ domains, a single SH3 domain, and a single guanylate kinase-like (GUK)-domain. In addition, members of the zonula occludens protein subfamily have an acidic domain, a basic arginine-rich region, and a proline-rich domain. The protein encoded by this gene plays a role in the linkage between the actin cytoskeleton and tight-junctions and also sequesters cyclin D1 at tight junctions during mitosis. Alternative splicing results in multiple transcript variants encoding distinct isoforms. This gene has a partial pseudogene on chromosome 1.
Molecular Mass	104.6 kDa
AA Sequence	MNLCGLMPIFPAPLDQVADMEELTIWEQHTATLSKDPRRGFGIAISGGRDRPGGSM VVSDVVPGGPAEGRQLTGDHIVMVNGVSMENATSAFAIQILKTCTKMANITVKRPRR IHLPATKASPSSPGRQDSDEDDGPQRVEEVDQGRGYDGDSSSGSGRSWDERSRR PRPGRRGRAGSHGRRSPGGGSEANGLALVSGFKRLPRQDVQMCPVKSVLVKRRD

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SEEFQVKGSGQIFIKHITDSGLAARHRGLQEGDLILQINGVSSQNLSLNDTRRLIEKSE
 GKLSLLVLRDRGQFLVNIPPAVSDSDSSPLEEGVTMADEMSSPPADISDLASELSQA
 PPSHIPPPRHAQRSPEASQTDSPVESPRRLRESSVDSRTISEPDEQRSELPRESSY
 DIYRVPSSQSMEDRGYSPDTRVVRFLKGKSGISGLRLAGGNDVGIFVSGVQAGSPADG
 QGIQEGDQILQVNDVPPFQNLTRREEAVQFLLGLPPGEEMELVTQRKQDIFWKMVQSR
 VGDSFYIRTHFELEPSPPSGLGFTRGDVFHVLDTLHPGPGQSHARGGHWLAVRMG
 RDLREQERGIIPNQSRAEQLASLEAAQRAVGVGPGSSAGSNARAEFWRLRGLRRG
 AKKTTQRSRELDLSALTRQGRYPPEYERVVLEASFKRPVVILGPVADIAMQKLTAEMP
 DQFEIAETVSRTDSPSKIILDTVRVIAEKDKHALLDVTPSAIERLNYVQYYPIVVFFIPE
 SRPALKALRQWLAPASRRSTRRLYAQAQKLRKHSSHLFTATIPLNGTSDTWYQELK
 AIIREQQTRPIWTAEDQLDGSLEDNLDLPHHGLADSSADLSCDSRVNSDYETDGEG
 GAYTDGEGYTDGEGGPYTDVDDEPPAPALARSEPVADESQSPRDRGRISAHQG
 AQVDSRHPQGQWRQDSMRTYEREALKKKFMRVHDAESSDEDGYDWGPATDLSG
 PTRTRRLEQKLISEEDLAANDILDYKDDDDKV

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

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 TJP3 tight junction protein 3 [Homo sapiens (human)]

Official Symbol TJP3

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Synonyms	TJP3; tight junction protein 3 (zona occludens 3); tight junction protein ZO-3; ZO 3; zona occludens protein 3; zonula occludens protein 3; ZO3; ZO-3; MGC119546;
Gene ID	27134
mRNA Refseq	NM_014428
Protein Refseq	NP_055243
MIM	612689
UniProt ID	O95049
SDS-PAGE	