TJP2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TJP2, Polyclonal Antibody
Full Product Name	TJP2 (Phospho-Ser978) Rabbit pAb
Product Gene Name	anti-TJP2 antibody
Product Synonym Names	Tight junction protein ZO-2; Tight junction protein 2; Zona occludens protein 2; Zonula occludens protein 2; TJP2; X104; ZO2
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB41329
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in PBS with 0.09% (W/V) Sodium Azide. This antibody is purified through a protein A column, followed by two-step phosphospecific peptide affinity purification.
Purity/Purification	Affinity Purified
OMIM	607709
3D Structure	ModBase 3D Structure for Q9UDY2
Immunogen	This TJP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S978 of human TJP2.
Cellular Localization	Cell Junction, Cell Membrane, Membrane, Nucleus, Tight Junction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TJP2 antibody	Dot Blot (DB)
Application Notes for anti-TJP2 antibody	DB: 1:500
Related Product Information for anti-TJP2 antibody	MBS8554251 is an antibody targeting TJP2. Also known as TJP2 (Phospho-Ser978) Rabbit pAb. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-TJP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TJP2. It may not necessarily be applicable to this product.

NCBI GI #	42518070
NCBI GeneID	9414
NCBI Accession #	NP_004808.2
UniProt Primary Accession #	Q9UDY2

UniProt Related Accession #	Q9UDY2
GenBank Nucleotide #	NP_004808.2
NCBI Official Full Name	tight junction protein ZO-2 isoform 1
NCBI Official Synonym Full Names	tight junction protein 2
NCBI Official Symbol	TJP2
NCBI Official Synonym Symbols	ZO2; X104; PFIC4; DFNA51; DUP9q21.11; C9DUPq21.11
UniProt Protein Name	Tight junction protein ZO-2
UniProt Synonym Protein Names	Tight junction protein 2; Zona occludens protein 2; Zonula occludens protein 2
Protein Family	Tight junction protein
UniProt Gene Name	TJP2
UniProt Synonym Gene Names	X104; ZO2
UniProt Entry Name	ZO2_HUMAN
NCBI Protein Information	tight junction protein ZO-2
NCBI Summary for TJP2	This gene encodes a zonula occluden that is a member of the membrane-associated guanylate kinase homolog family. The encoded protein functions as a component of the tight junction barrier in epithelial and endothelial cells and is necessary for proper assembly of tight junctions. Mutations in this gene have been identified in patients with hypercholanemia, and genomic duplication of a 270 kb region including this gene causes autosomal dominant deafness-51. Alternatively spliced transcripts encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]
UniProt Comments for TJP2	ZO2: a scaffolding protein of the MAGUK (membrane-associated guanylate kinase) family associated with epithelial tight junctions (TJ). May mediate dynamic changes in the composition of TJs. Plays a role in tight junctions and adherens junctions. Forms homodimers, and heterodimer with ZO-1 and ZO-3. The ZOs shuttle between the TJ and the nucleus, where they may regulate gene expression. Interacts with occluding, UBN1 and scribble. Interacts with SAFB in the nucleus. TJ, or zonula occludens, are the closely associated areas of two cells whose membranes are tightly joined together. They are composed of a branching network of strands, the efficiency of which increases exponentially with the number of strands. The strands associate with transmembrane proteins that bind to similar proteins on adjacent cells, and with submembranous proteins that are anchored to the actin component of the cytoskeleton. Thus, TJs join together the cytoskeletons of adjacent cells. They endow tissues with substantial form, shape and location, enforce cellular polarity, and form barriers to molecules and pathogens. Molecules forming the membranous part of TJs include occludin, claudins, tricellulin and junctional adhesion molecules. These molecules interact with the proteins ZO-1, ZO-2 and ZO-3. Tight junction proteins are involved in the epithelial-mesenchymal transitions (EMT) in tumors. Five isoforms of the human protein are produced by alternative promoters. Isoform A1 is abundant in the heart and brain. Detected in brain and skeletal muscle. It is present almost exclusively in normal tissues. Isoform C1 is expressed at high level in the kidney, pancreas, heart and placenta. Not detected in brain and skeletal muscle. Found in normal as well as in most neoplastic tissues.. Protein type: Motility/polarity/chemotaxis; Adaptor/scaffold Chromosomal Location of Human Ortholog: 9q13-q21 Cellular Component: nucleoplasm; tight junction; adherens junction; cytoplasm; plasma membrane; cell junction; cytosol Molecular Function: protein binding, bridging; protein C-terminus binding; protein domain specific binding; guanylate kinase activity; protein binding Biological Process: response to organic substance; apoptosis; cell structure disassembly during apoptosis; nucleotide phosphorylation; intestinal absorption Disease: Hypercholanemia, Familial; Cholestasis, Progressive Familial Intrahepatic, 4
Research Articles on TJP2	**1.** Results suggested that a reduction in CLDN18-dependent ZO-2 expression enhances MMP2 expression in lung adenocarcinoma cells, resulting in the promotion of the cell migration.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/tjp2/8554251