

Anti-TJP2 Antibody
Catalog # ABO11279**Specification**

Anti-TJP2 Antibody - Product Information

Application	WB, IHC
Primary Accession	O9Z0U1
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Tight junction protein ZO-2(TJP2) detection. Tested with WB, IHC-P in Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-TJP2 Antibody - Additional Information

Gene ID 21873

Other Names

Tight junction protein ZO-2, Tight junction protein 2, Zona occludens protein 2, Zonula occludens protein 2, Tjp2, Zo2

Calculated MW

131280 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, By Heat
Western blot, 0.1-0.5 µg/ml, Mouse, Rat

Subcellular Localization

Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Nucleus . Cell junction, tight junction . Also nuclear under environmental stress conditions and in migratory endothelial cells and subconfluent epithelial cell cultures. .

Protein Name

Tight junction protein ZO-2

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of mouse TJP2(1149-1167aa AHSKRGYYSQPSRYRDTTEL), identical to the related rat sequence.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the MAGUK family.

Anti-TJP2 Antibody - Protein Information

Name Tjp2

Synonyms Zo2

Function

Plays a role in tight junctions and adherens junctions (PubMed:10026224). Acts as a positive regulator of RANKL-induced osteoclast differentiation, potentially via mediating downstream transcriptional activity (PubMed:22437732).

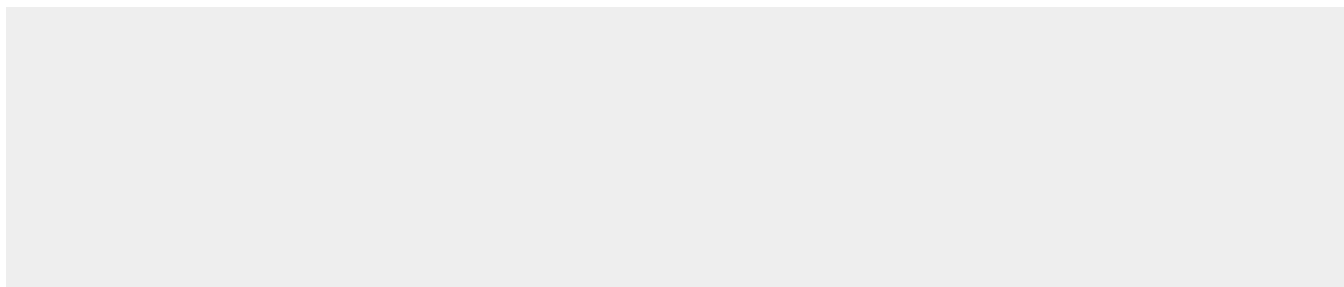
Cellular Location

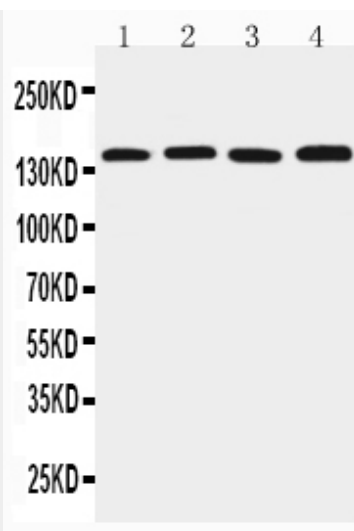
Cell membrane; Peripheral membrane protein; Cytoplasmic side. Nucleus. Cell junction, tight junction. Note=Also nuclear under environmental stress conditions and in migratory endothelial cells and subconfluent epithelial cell cultures.

Anti-TJP2 Antibody - Protocols

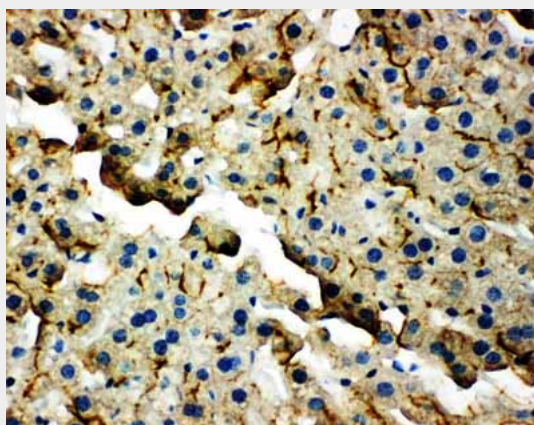
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-TJP2 Antibody - Images



Anti-TJP2 antibody, ABO11279, Western blotting
Lane 1: Rat Brain Tissue Lysate
Lane 2: PC-12 Cell Lysate
Lane 3: Mouse Brain Tissue Lysate
Lane 4: HEPA Cell Lysate



Anti-TJP2 antibody, ABO11279, IHC(P)
IHC(P): Mouse Liver Tissue

Anti-TJP2 Antibody - Background

TJP2(Tight Junction Protein 2), also known as Zona Occludens 2 or ZO2, is a protein that in humans is encoded by the TJP2 gene. Tight junction proteins(TJPs) belong to a family of membrane-associated guanylate kinase(MAGUK) homologs that are involved in the organization of epithelial and endothelial intercellular junctions. Duclos et al.(1994) mapped the TJP2 gene telomeric to the Friedreich ataxia critical region on chromosome 9q13-q21. TJP2 lies about 70 kb centromeric to the X123 gene and is transcribed in the centromere-to-telomere direction. Using in vitro assays and immunoprecipitation studies, Itoh et al.(1999) showed that the mouse Tjp1, Tjp2, and Tjp3 PDZ1 domains interacted with the C-terminal cytoplasmic domains of Cldn1 through Cldn8. In the mouse inner ear, Walsh et al.(2010) found that Tjp2 expression decreased rapidly between E16.5 and age 1 week to a level in adult mice that was approximately 50% of the level at birth(P0).