

Summary

Production Name	ZO-2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	TJP2
Alternative Names	TJP2; X104; ZO2; Tight junction protein ZO-2; Tight junction protein 2; Zona occludens protein 2; Zonula occludens protein 2
Gene ID	9414.0
SwissProt ID	Q9UDY2.The antiserum was produced against synthesized peptide derived from human ZO-2. AA range:1063-1112

Application

Dilution Ratio	WB 1:500-1:2000. ELISA: 1:10000.
Molecular Weight	160kD

Background

Product Name: ZO-2 Rabbit Polyclonal Antibody
Catalog #: APRab20304



This gene encodes a zonula occludens 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],disease:Defects in TJP2 are involved in familial hypercholanemia (FHCA) [MIM:607748]. FHCA is a disorder characterized by elevated serum bile acid concentrations, itching, and fat malabsorption.,function:Plays a role in tight junctions and adherens junctions.,similarity:Belongs to the MAGUK family.,similarity:Contains 1 guanylate kinase-like domain.,similarity:Contains 1 SH3 domain.,similarity:Contains 3 PDZ (DHR) domains.,subcellular location:Also nuclear under environmental stress conditions and in migratory endothelial cells and subconfluent epithelial cell cultures.,subunit:Homodimer, and heterodimer with ZO1. Interacts with occludin, SAFB and UBN1. Interaction with SAFB occurs in the nucleus.,tissue specificity:This protein is found in epithelial cell junctions. Isoform A1 is abundant in the heart and brain whereas isoform C1 is expressed at high level in the kidney, pancreas, heart and placenta. In brain and skeletal muscle, only isoform A1 is detectable. Isoform C1 is found in normal as well as in most neoplastic tissues while isoform A1 is present almost exclusively in normal tissue.,

Research Area

Tight junction;Vibrio cholerae infection;

Image Data



Western blot analysis of lysate from K562 cells, using ZO-2 antibody.

Note

For research use only.