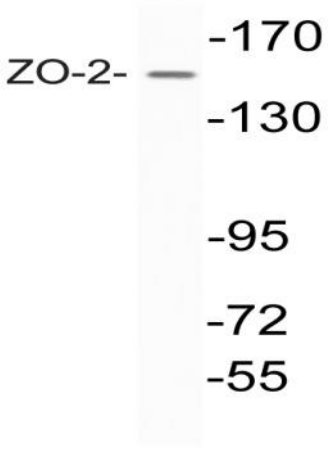
Immunoway
Best Tools for immunology Research

ZO-2 Polyclonal Antibody

Catalog No :	YT4993
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	ZO-2
Fields :	>>Tight junction;>>Vibrio cholerae infection
Gene Name :	TJP2
Protein Name :	Tight junction protein ZO-2
Human Gene Id :	9414
Human Swiss Prot No :	Q9UDY2
Mouse Gene Id :	21873
Mouse Swiss Prot No :	Q9Z0U1
Immunogen :	The antiserum was produced against synthesized peptide derived from human ZO-2. AA range:1063-1112
Specificity :	ZO-2 Polyclonal Antibody detects endogenous levels of ZO-2 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	160kD
Cell Pathway :	Tight junction;Vibrio cholerae infection;
Background :	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],
Function :	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
Subcellular Location :	Cell junction, adherens junction. Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell junction, tight junction . Nucleus . Also nuclear under environmental stress conditions and in migratory endothelial cells and subconfluent epithelial cell cultures. .
Expression :	This protein is found in epithelial cell junctions. 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.

Products Images



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