Datasheet for ABIN6655949

anti-TJP1 antibody

6 Images

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Overview

Quantity:	100 µg
Target:	TJP1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TJP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS), Fluorescence Microscopy (FM)

Product Details

Immunogen:	Immunogen: Anti-ZO-1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal portion of human ZO-1 conjugated to Keyhole Limpet Hemocyanin (KLH). Immunogen Type: Peptide
Isotype:	IgG
Cross-Reactivity:	Human, Mouse (Murine)
Purification:	This affinity purified antibody is directed against human ZO-1. This product was affinity purified from monospecific antiserum by immunoaffinity purification. Blast analysis of the sequence of the immunogen shows 100% identity with human.

Target Details

Target:	TJP1
Alternative Name:	ZO-1 (TJP1 Products)
Background:	Synonyms: rabbit anti-ZO-1 antibody, ZO 1, ZO1, Tight junction protein ZO-1, Tight junction protein 1, Zona occludens protein 1, Zonula occludens protein 1, TJP1 Background: ZO-1, also called TJP1, belongs to the MAGUK family. This gene encodes a protein located on a cytoplasmic membrane surface of intercellular tight junctions. The encoded protein may be involved in signal transduction at cell-cell junctions. The N-terminal may be involved in transducing a signal required for tight junction assembly, while the C-terminal may have specific properties of tight junctions. The alpha domain might be involved in stabilizing junctions. ZO-1 plays a role in the regulation of cell migration by targeting CDC42BPB to the leading edge of migrating cells. ZO1 may be associated the following disorders, celiac desease, congenital nephrotic syndrome finnish type, and macular degeneration. Anti-ZO-1 Antibody is useful for researchers interested in Apoptosis Research and Insulin Research. Gene Name: TJP1
Gene ID:	7082
NCBI Accession:	NP_003248
UniProt:	Q07157
Pathways:	Carbohydrate Homeostasis, Cell-Cell Junction Organization

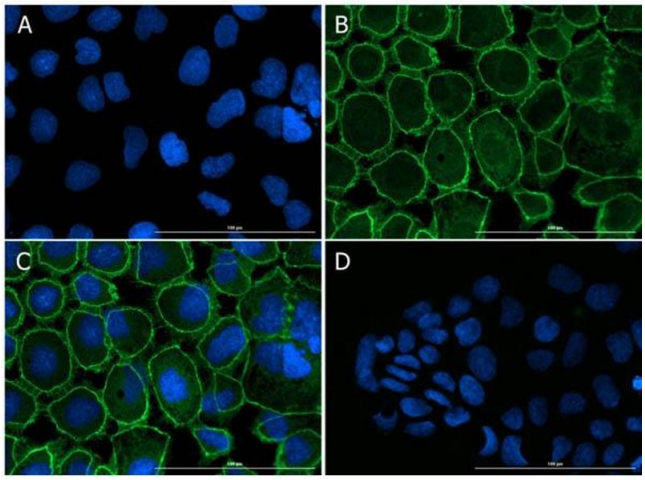
Application Details

Application Notes:	Immunohistochemistry Dilution: 1:100-1:200 Application Note: Anti-ZO-1 Antibody has been tested in Western Blot, ELISA, Immunohistochemistry, Immunofluorescence, and Flow Cytometry. Expect a band at ~245 and/or 195.5 kDa in western blot using appropriate lysates. Positive control whole cell lysates used A549 and PC3 @ 1 µg/mL for WB, CACO2 and PC3 with PFA and MeOH @ 10 µg/mL for IF. Positive control cells for FC were PC3 and positive control tissues for IHC was mouse adipose tissue. ELISA Dilution: 5 µg/mL Flow Cytometry Dilution: User Optimized Western Blot Dilution: 1:1000 IF Microscopy Dilution: 10 µg/mL
Restrictions:	For Research Use only

Handling

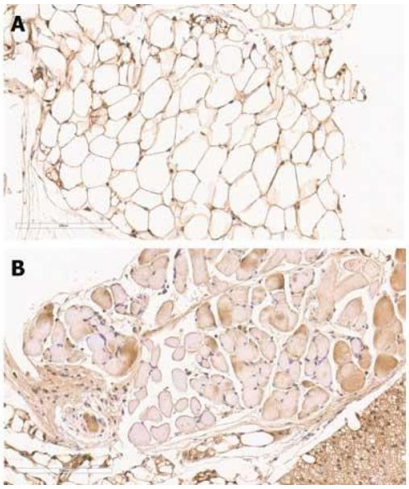
Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 0.01 % (w/v) Sodium Azide Stabilizer: None
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Images



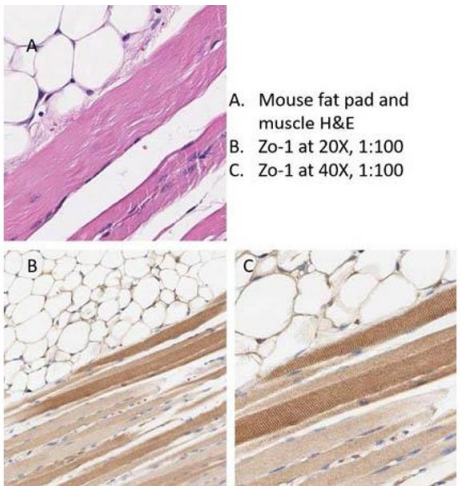
Immunofluorescence

Image 1. Immunofluorescence Microscopy of Rabbit anti-ZO-1 antibody. Immunofluorescence Microscopy of Rabbit anti-ZO-1 antibody. Tissue: CaCO2. Fixation: 4% PFA. Permeabilization: 0.3%Triton X-100. Primary antibody: ZO-1 antibody at 15µg/mL overnight at 2-8°C. Secondary antibody: Donkey Anti-Rabbit IgG 488 Conjugated Preadsorbed at 5µg/mL for 1 h at RT. Localization: membrane. Staining: (A)DAPI. (B)DyLight488. (C)Merge A-B. (D) Secondary Only.



Immunohistochemistry

Image 2. Immunohistochemistry of Rabbit anti-ZO-1 antibody Immunohistochemistry of Rabbit anti-ZO-1 antibody. Tissue: mouse adipose tissue. Fixation: formalin fixed paraffin embedded. Epitope retrieval: heat induced (HIER). Primary antibody: ZO-1 antibody at 1:100 [A] and 1:200 [B] for 1 h at RT. Localization: ZO-1 will stain cell-cell junctions. Visualized with WARP RED on MACH 4 universal AP polymer detection system.



Immunohistochemistry

Image 3. Immunohistochemistry of Rabbit Anti-ZO1 antibody Immunohistochemistry of Rabbit Anti-ZO-1 antibody. Tissue: mouse adipose tissue and muscle. Fixation: formalin fixed paraffin embedded. Antigen retrieval: heat induced (HIER) using Citrate Buffer for 20min. Primary antibody: ZO-1 antibody at 1:100 for 30min at RT. Secondary Antibody: Anti-Rabbit Poly-HRP-IgG Ready-to-Use for 8min at RT. Localization: ZO-1 will stain cell-cell junctions. Staining: DAB. Counter Stain: Hematoxylin.

Please check the product details page for more images. Overall 6 images are available for ABIN6655949.