ZO-1
Polyclonal ANTIBODY
Catalog Number: 20742-1-AP

Basic Information
Catalog Number: 20742-1-AP
GenBank Accession Number: NM_003257
GenLoc (NCBI): 7012
Source: Rabbit
Isotype: IgG
Purification Method: Antigen affinity purification
Immunogen Catalog Number: 
Immunogen GeneID (NCBI): 7082
Full Name: tight junction protein 1 (zona occludens 1)
Calculated MW: 196 kDa
Observed MW: 

Recommended Dilutions:
IF: 1:20-1:200

Applications
Tested Applications:
IF, ELISA
Cited Applications:
IF
Species Specificity:
human
Cited Species:
rat

Positive Controls:
IF: HUVEC cells;

Note: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information
Tight junction (or zonula occludens) form the continuous intercellular barrier between epithelial and endothelial cells, which is required to separate tissue spaces and regulate selective movement of solutes across the epithelium and endothelium (PMID: 20066090). ZO-1 (also known as TJP1) is a peripheral membrane phosphoprotein located on the cytoplasmic face and is expressed in tight junctions of both epithelial and endothelial cells (PMID: 3528172). It binds the transmembrane proteins occludin and the claudins linking them to cytoskeletal actin (PMID: 17418867). ZO-1 belongs to a family of multidomain proteins known as the membrane-associated guanylate kinase homologs (MAGUKs). It is a pivotal tight junction protein and may be involved in signalling mechanisms regulating cell proliferation and differentiation (PMID: 21250399).

Notable Publications

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<td>Shan Feng</td>
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Storage
Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.05% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

For Research Use Only

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2 Publications
Selected Validation Data

Immunofluorescent analysis of HUVEC cells using 20742-1-AP (ZO-1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)