

For Research Use Only

# ZO-1 Polyclonal antibody

Catalog Number: 20742-1-AP

11 Publications



## Basic Information

Catalog Number:

20742-1-AP

Concentration:

600 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_003257

GeneID (NCBI):

7082

UNIPROT ID:

Q07157

Full Name:

tight junction protein 1 (zona occludens 1)

Calculated MW:

196 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF/ICC 1:20-1:200

## Applications

Tested Applications:

IF, ELISA

Cited Applications:

WB, IF

Species Specificity:

human

Cited Species:

human, mouse, rat, bovine

Positive Controls:

IF/ICC : HUVEC cells,

## 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: 22782886).

## Notable Publications

| Author      | Pubmed ID | Journal                | Application |
|-------------|-----------|------------------------|-------------|
| E O Adegoke | 30267989  | Ecotoxicol Environ Saf | IF          |
| Shan Feng   | 30227623  | Molecules              | IF          |
| Rui Feng    | 34871925  | Theriogenology         | WB, IF      |

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% 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:

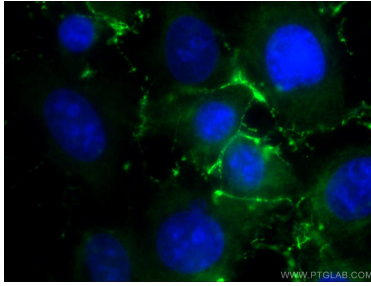
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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

## 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 Goat Anti-Rabbit IgG(H+L).