

For Research Use Only

# ZO-1 Polyclonal antibody

Catalog Number: 20742-1-AP

11 Publications



## Basic Information

### Catalog Number:

20742-1-AP

### Size:

150ul, Concentration: 600 µg/ml by Nanodrop and 353 µg/ml by Bradford method using BSA as the standard;

### 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

\*\*\* 20ul sizes contain 0.1% BSA

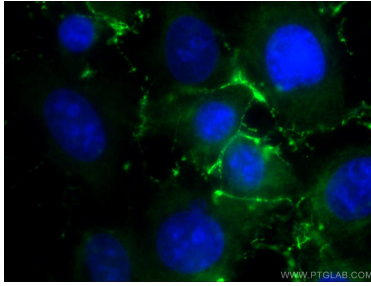
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## Selected Validation Data



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).