#### For Research Use Only

# CoraLite®594-conjugated ZO-1 Polyclonal antibody



**Purification Method:** 

IF 1:50-1:500

wavelengths: 588 nm / 604 nm

Antigen affinity purification

Excitation/Emission maxima

Recommended Dilutions:

Catalog Number: CL594-21773

**Featured Product** 

2 Publications

**Basic Information** 

**Applications** 

Catalog Number: GenBank Accession Number: CL594-21773 BC111712

GeneID (NCBI):

100ul, Concentration: 1000 µg/ml by 7082

Source: tight junction protein 1 (zona

Rabbit occludens 1) Calculated MW: Isotype: 1748 aa, 195 kDa IgG Observed MW: Immunogen Catalog Number:

AG16454

Positive Controls:

IF: MCF-7 cells, HUVEC cells

**Tested Applications:** 

FC (Intra), IF

**Cited Applications:** 

IF, WB

Species Specificity:

human, Canine, mouse, rat, hamster

**Cited Species:** human

## **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
Suping Li	36090684	J Ginseng Res	IF
Suping Li	36871980	Chin J Nat Med	WB,IF

### Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

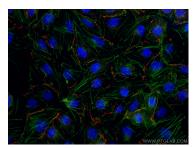
Aliquoting is unnecessary for -20°C storage

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

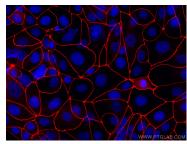
in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com

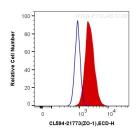
## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using CoraLite®594 ZO-1 antibody (CL594-21773) at dilution of 1:200, CL488-phalloidin (green).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using CoraLite®594 ZO-1 antibody (CL594-21773) at dilution of 1:200.



1X10^6 MCF-7 cells were intracellularly stained with 0.4 ug Coralite®594 Anti-Human ZO-1 (CL594-21773) (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).