

For Research Use Only

# CoraLite® Plus 488-conjugated ZO-1 Polyclonal antibody

Catalog Number: CL488-21773

Featured Product

3 Publications



## Basic Information

Catalog Number:

CL488-21773

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16454

GenBank Accession Number:

BC111712

GeneID (NCBI):

7082

UNIPROT ID:

Q07157

Full Name:

tight junction protein 1 (zona occludens 1)

Calculated MW:

1748 aa, 195 kDa

Observed MW:

230 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IF/ICC 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

## Applications

Tested Applications:

IF/ICC, FC (Intra)

Cited Applications:

IHC, IF

Species Specificity:

human, mouse, rat, canine, hamster

Cited Species:

mouse

Positive Controls:

IF/ICC : MCF-7 cells, 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
Yuanyuan Zhu	39238009	J Nanobiotechnology	IF
Yunxia Xue	38428739	Mucosal Immunol	IF
Praveen Papareddy	38326335	Nat Commun	IHC

## Storage

Storage:

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

Storage Buffer:

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

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

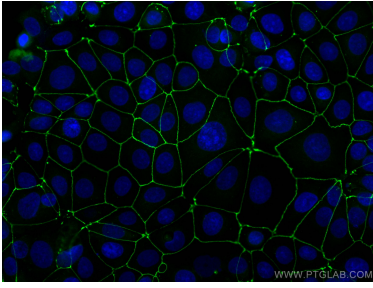
T: 4006900926

E: Proteintech-CN@ptglab.com

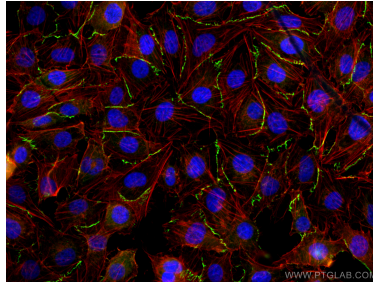
W: ptgcn.com

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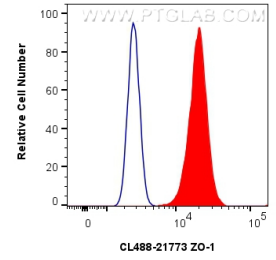
## Selected Validation Data



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using CoraLite® Plus 488 ZO-1 antibody (CL488-21773) at dilution of 1:200.



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using CoraLite® Plus 488 ZO-1 antibody (CL488-21773) at dilution of 1:200.



1x10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.4 ug CoraLite® Plus 488-conjugated ZO-1 Polyclonal antibody (CL488-21773)(red), or 0.4 ug CoraLite® Plus 488-conjugated Rabbit IgG control Rabbit PolyAb (CL488-30000) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).