For Research Use Only

CoraLite®594-conjugated ZO-1 Polyclonal antibody

Catalog Number:CL594-21773 Featured Product 7 Publications

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Basic Information

Catalog Number:
CL594-21773

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

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
FC (Intra): 0.8 ug per 10^6 cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:
588 nm / 604 nm

Applications

Tested Applications:
IF/ICC, FC (Intra)

Cited Applications:
WB, IF, FC

Species Specificity:
human, mouse, rat, canine, hamster

Cited Species:
human, mouse, rat

Positive Controls:

IF/ICC : MCF-7 cells, HUVEC cells, U2OS cells

FC (Intra) : MCF-7 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
Suping Li	36090684	J Ginseng Res	IF
Xuehan Zhang	41692731	J Nanobiotechnology	IF
Rosaria Margherita Rispoli	41516180	Int J Mol Sci	FC

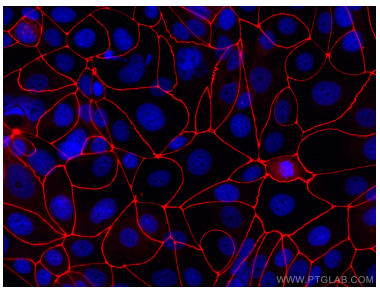
Storage

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, pH7.3
Aliquoting is unnecessary for -20°C storage

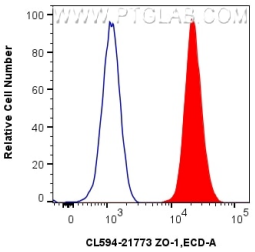
For technical support and original validation data for this product please contact:
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Immunofluorescent analysis of (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 0.8 ug CoraLite®594-conjugated ZO-1 Polyclonal antibody (CL594-21773)(red), or 0.8 ug Isotype Control (blue). Cells were fixed and permeabilized with Intracellular Flow Cytometry Fixation & Permeabilization Buffer Kit (PF00019).