

For Research Use Only

ZO-1 Recombinant antibody, PBS Only



Catalog Number: 82870-1-PBS

Basic Information

Catalog Number: 82870-1-PBS	GenBank Accession Number: BC111712	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 7082	CloneNo.: 2P13
Source: Rabbit	UNIPROT ID: Q07157	
Isotype: IgG	Full Name: tight junction protein 1 (zona occludens 1)	
Immunogen Catalog Number: AG33182	Calculated MW: 1748 aa, 195 kDa	
	Observed MW: 230 kDa	

Applications

Tested Applications:
WB,IP,Indirect ELISA,IF

Species Specificity:
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 signaling mechanisms regulating cell proliferation and differentiation (PMID: 22782886).

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

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

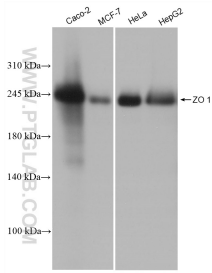
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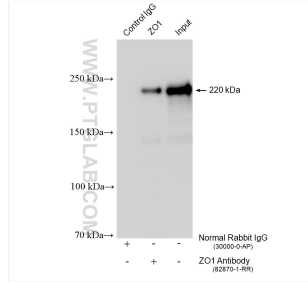
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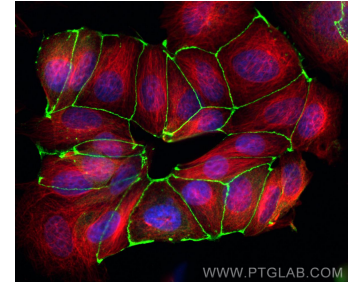
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82870-1-RR (ZO-1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82870-1-PBS in a different storage buffer formulation.



IP result of anti-ZO-1 (IP:82870-1-RR, 4ug; Detection:82870-1-RR 1:2000) with HEK-293 cells lysate 920 ug. This data was developed using the same antibody clone with 82870-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using ZO-1 antibody (82870-1-RR, Clone: 2P13) at dilution of 1:1500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), Alpha Tubulin antibody (66031-1-Ig, Clone: 1E4C11, red). This data was developed using the same antibody clone with 82870-1-PBS in a different storage buffer formulation.