For Research Use Only

ZO-1 Monoclonal antibody, PBS Only

Catalog Number:66452-1-PBS

Featured Product

1 Publications



Purification Method:

Protein A purification

CloneNo.:

1G4A1

Basic Information

Catalog Number: 66452-1-PBS

Mouse

GenBank Accession Number:

BC111712

GeneID (NCBI):

100ug , Concentration: 1mg/ml by 7082

Nanodrop:

UNIPROT ID: Q07157 Full Name:

Isotype: tight junction protein 1 (zona

IgG1 occludens 1)

Immunogen Catalog Number:Calculated MW:AG164541748 aa, 195 kDa

Observed MW: 230 kDa

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:

IF

Species Specificity:

human, canine

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 (MAGUIs). It is a pivotal tight junction protein and may be involved in signalling mechanisms regulating cell proliferation and differentiation (PMID: 22782886).

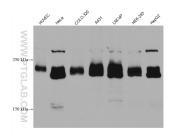
Notable Publications

AuthorPubmed IDJournalApplicationDan Yuan39297569ACS NanoIF

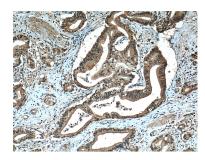
Storage

Storage: Store at -80°C. Storage Buffer: PBS Only

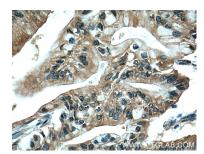
Selected Validation Data



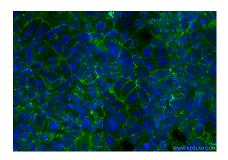
Various lysates were subjected to SDS PAGE followed by western blot with 66452-1-lg (ZO-1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66452-1-PBS in a different storage buffer formulation.



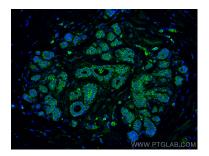
Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 66452-1-Ig (ZO-1 antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66452-1-PBS in a different storage buffer formulation.



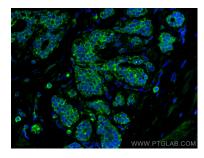
Immunohistochemical analysis of paraffinembedded human pancreas cancer tissue slide using 66452-1-Ig (ZO-1 antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 66452-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using ZO-1 antibody (66452-1-Ig, Clone: 1G4A1) at dilution of 1:800 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 66452-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using ZO-1 antibody (66452-1-lg, Clone: 1G4A1) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66452-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using ZO-1 antibody (66452-1-lg, Clone: 1G4A1) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66452-1-PBS in a different storage buffer formulation.