

ZO1 Antibody

Catalog No: #48588



Package Size: #48588-1 50ul #48588-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

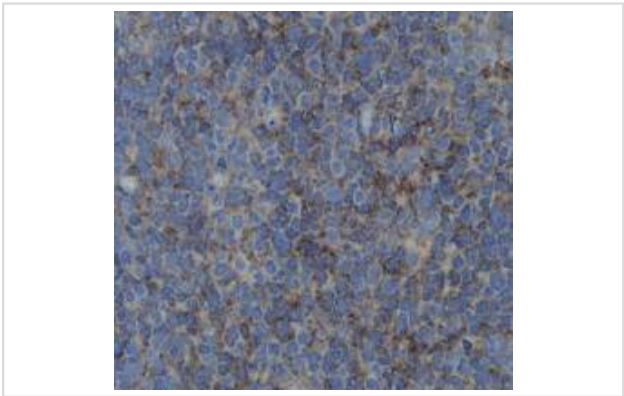
Description

Product Name	ZO1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Peptide affinity purified
Applications	ICC, IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	peptide
Conjugates	Unconjugated
Other Names	Tight junction protein 1 antibody Tight junction protein ZO-1 antibody Tight junction protein ZO1 antibody TJP1 antibody zo-1 antibody Zo1 antibody ZO1_HUMAN antibody Zona occludens 1 antibody Zona occludens 1 protein antibody Zona occludens protein 1 antibody Zonula occludens 1 protein antibody Zonula occludens protein 1 antibody
Accession No.	Swiss-Prot#:Q07157
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

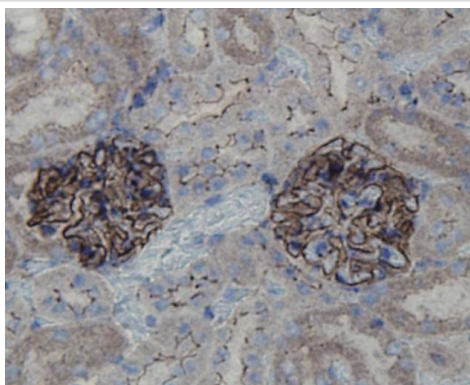
Application Details

IHC: 1:200ICC: 1:200

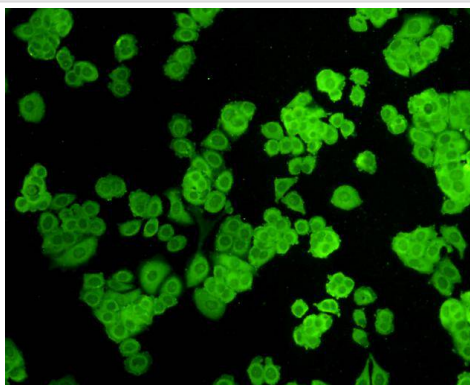
Images



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-ZO1 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-ZO1 antibody. Counter stained with hematoxylin.



ICC staining ZO1 in MCF-7 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

Tight junction protein ZO-1 is a protein that in humans is encoded by the TJP1 gene. This gene encodes a protein located on a cytoplasmic membrane surface of intercellular tight junctions. The N-terminal may be involved in transducing a signal required for tight junction assembly, while the C-terminal may have specific properties of tight junctions. The alpha domain might be involved in stabilizing junctions. ZO1 plays a role in the regulation of cell migration by targeting CDC42BPB to the leading edge of migrating cells.

References

1. "Evidence for a functional interaction between cingulin and ZO-1 in cultured cells." D'Atri F., Nadalutti F., Citi S. J. Biol. Chem. 277:27757-27764(2002)
2. "Density-enhanced phosphatase 1 regulates phosphorylation of tight junction proteins and enhances barrier function of epithelial cells." Sallee J.L., Burrige K. J. Biol. Chem. 284:14997-15006(2009)
3. "Cdc42-dependent formation of the ZO-1/MRCKbeta complex at the leading edge controls cell migration." Huo L., Wen W., Wang R., Kam C., Xia J., Feng W., Zhang M. EMBO J. 30:665-678(2011)

Published Papers

el at., Lipopolysaccharide-Induced Chorioamnionitis Induces Fetal Intestinal Injury and Affects Gut Colonization in Rats

, , (2020)

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el at., Bacterial endotoxin-induced maternal inflammation leads to fetal intestinal injury and affects microbial colonization in the neonatal period. In J Matern Fetal Neonatal Med

on 2021 May 31 by Qingmei Huang, Siliang Lu,et al..PMID:34058958, , (2021)

PMID:34058958

Note: This product is for in vitro research use only and is not intended for use in humans or animals.