

# ZO2 Antibody

Catalog No: #48197



Package Size: #48197-1 50ul #48197-2 100ul

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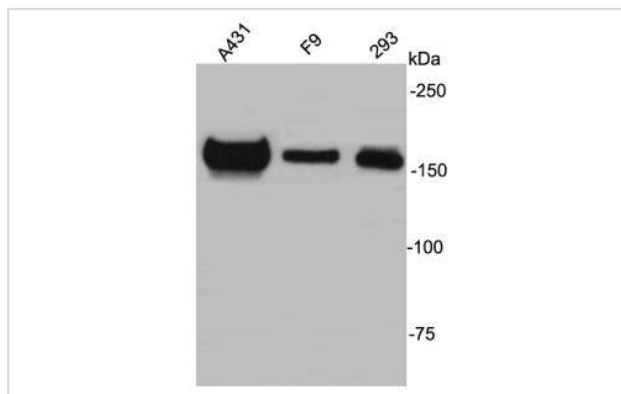
## Description

Product Name	ZO2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Peptide affinity purified
Applications	WB, ICC
Species Reactivity	Hu,Ms
Immunogen Description	peptide
Other Names	C9DUPq21.11 antibody DFNA51 antibody DUP9q21.11 antibody Friedreich ataxia region gene X104 (tight junction protein ZO-2) antibody MGC26306 antibody PFIC4 antibody Tight junction protein 2 antibody Tight junction protein ZO 2 antibody Tight junction protein ZO-2 antibody TJP2 antibody X104 antibody ZO 2 antibody ZO-2 antibody ZO2 antibody ZO2_HUMAN antibody Zona occludens 2 antibody Zona occludens protein 2 antibody Zonula occludens protein 2 antibody
Accession No.	Swiss-Prot#:Q9UDY2
Calculated MW	150 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

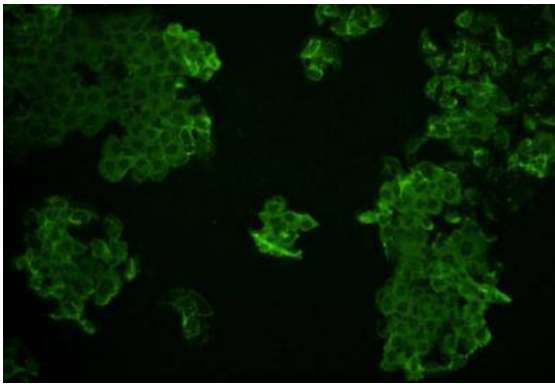
## Application Details

WB: 1:1000-1:2,000 ICC: 1:100-1:200

## Images



Western blot analysis on cell lysates using anti-ZO2 rabbit polyclonal antibodies.



ICC staining ZO2 in A431 cells (green). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

## Background

Tight junctions, or zona occludens, form a continuous barrier to fluids across the epithelium and endothelium. They function in regulation of paracellular permeability and in the maintenance of cell polarity, blocking the movement of transmembrane proteins between the apical and the basolateral cell surfaces. Zona occludens proteins ZO-1, -2, and -3 (also known as TJP1, 2, and 3) are peripheral membrane adaptor proteins that link junctional transmembrane proteins such as occludin and claudin to the actin cytoskeleton. ZO-1 and -2 are required for tight junction formation and function. In subconfluent proliferating cells, ZO-1 and ZO-2 have been shown to colocalize to the nucleus and play a role in transcriptional regulation, possibly through facilitating nuclear import/export of transcriptional regulators.

## References

- 1."Organization and expression of the human zo-2 gene (tjp-2) in normal and neoplastic tissues." Chlenski A., Ketels K.V., Korovaitseva G.I., Talamonti M.S., Oyasu R., Scarpelli D.G. *Biochim. Biophys. Acta* 1493:319-324(2000)
- 2."hScrib interacts with ZO-2 at the cell-cell junctions of epithelial cells." Metais J.-Y., Navarro C., Santoni M.-J., Audebert S., Borg J.-P. *FEBS Lett.* 579:3725-3730(2005)
- 3."Domain-swapped dimerization of the second PDZ domain of ZO2 may provide a structural basis for the polymerization of claudins." Wu J., Yang Y., Zhang J., Ji P., Du W., Jiang P., Xie D., Huang H., Wu M., Zhang G., Wu J., Shi Y. *J. Biol. Chem.* 282:35988-35999(2007)

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