

ZO-1 Monoclonal Antibody

Catalog No. E-AB-27827

Note: Centrifuge before opening to ensure complete recovery of vial contents.

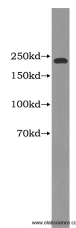
Description

Reactivity	Human, Mouse
Immunogen	Fusion protein of ZO-1
Host	Mouse
Isotype	IgG1
Clone	Clone:1G4A1
Purification	Protein G purification
Conjugation	Unconjugated
Buffer	PBS with 0.02% sodium azide, 50% glycerol, PH7.3

Applications Recommended Dilution

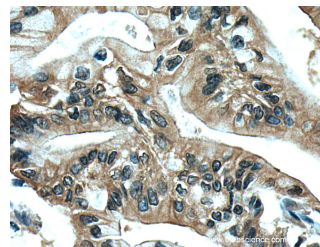
WB 1:1000-1:4000,
IHC 1:200-1:800, IF
1:50-1:200

Data

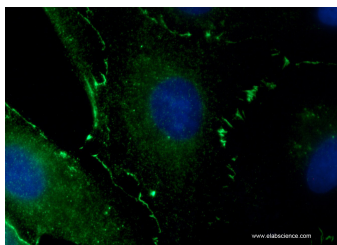


Western Blot analysis of HepG2 cells using ZO-1 Monoclonal Antibody at dilution of 1:2000.

Observed Mw:230kDa
Calculated Mw:1748aa,195kDa



Immunohistochemistry of paraffin-embedded human pancreas cancer tissue slide using ZO-1 Monoclonal Antibody at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed MDCK cells using ZO-1 Monoclonal Antibody at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

For Research Use Only

Preparation & Storage

Storage Store at -20°C. Avoid freeze / thaw cycles.

Background

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. 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. It binds the transmembrane proteins occludin and the claudins linking them to cytoskeletal actin. 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.

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