

Basic Information

Product Name	Anti-ZO-1/TJP1 Antibody
Gene Name	TJP1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human TJP1 recombinant protein (Position: H1178-F1527). Human TJP1 shares 82% amino acid (aa) sequence identity with mouse TJP1.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	220 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or pH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

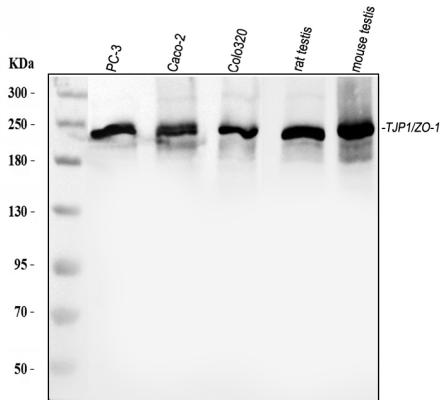
Tight junction protein ZO-1 is a protein that in humans is encoded by the TJP1 gene. It is mapped to 15q13.1. This gene encodes a protein located on a cytoplasmic membrane surface of intercellular tight junctions. The encoded protein may be involved in signal transduction at cell-cell junctions. It has been found that injected CagA associates with the epithelial tight-junction scaffolding protein TJP1 and the transmembrane protein junctional adhesion molecule, causing an ectopic assembly of tight junction components at sites of bacterial attachment, and altering the composition and

function of the apical-junctional complex.

Reference

Anti-ZO-1/TJP1 Antibody被引用在72文献中。

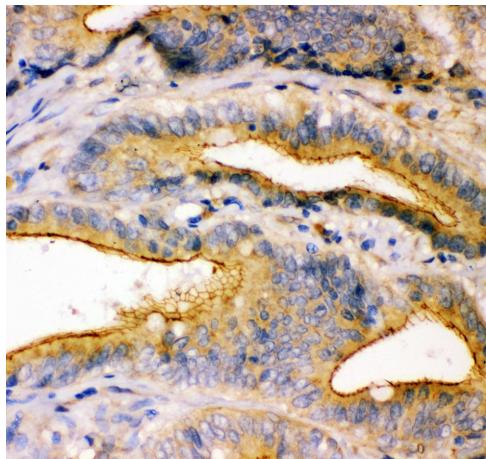
Selected Validation Data



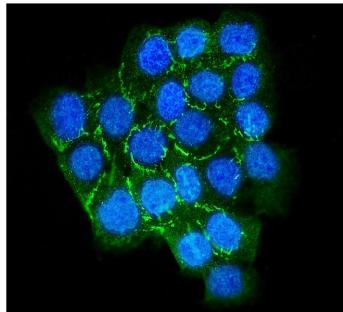
Western blot analysis of ZO-1/TJP1 using anti-ZO-1/TJP1 antibody (PB9234). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human PC-3 whole cell lysates,
Lane 2: human Caco-2 whole cell lysates,
Lane 3: human Colo320 whole cell lysates,
Lane 4: rat testis tissue lysates,
Lane 5: mouse testis tissue lysates.

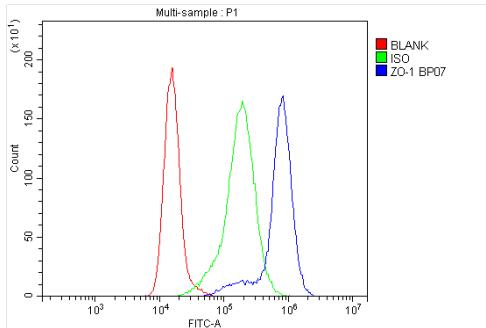
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ZO-1/TJP1 antigen affinity purified polyclonal antibody (PB9234) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ZO-1/TJP1 at approximately 220 kDa. The expected band size for ZO-1/TJP1 is at 195 kDa.



IHC analysis of ZO-1/TJP1 using anti-ZO-1/TJP1 antibody (PB9234). ZO-1/TJP1 was detected in a paraffin-embedded section of human intestinal cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-ZO-1/TJP1 Antibody (PB9234) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



ICC/IF analysis of ZO-1/TJP1 using anti-ZO-1/TJP1 antibody (PB9234). ZO-1/TJP1 was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-ZO-1/TJP1 Antibody (PB9234) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of K562 cells using anti-ZO-1/TJP1 antibody (PB9234).

Overlay histogram showing K562 cells stained with PB9234 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-ZO-1/TJP1 Antibody (PB9234) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

Product datasheet

Anti-ZO-1/TJP1 Antibody

Catalog Number: **PB9234**



antibody and ELISA experts

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