

Anti-ZO-1 Antibody (3R289)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 191 kDa. Actual: 240 kDa.
Clone:	3R289
Purification:	Protein A purified

Applications

	<p>1. Paraformaldehyde-fixed, paraffin embedded Mouse Kidney; Antigen retrieval by boiling in EDTA buffer (pH9.0) for 15 min; The section was incubated with ZO-1 Monoclonal Antibody, Unconjugated (TMAB-14456) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L Secondary Antibody-HRP and DAB staining.</p> <p>2. Paraformaldehyde-fixed, paraffin embedded Rat Kidney; Antigen retrieval by boiling in EDTA buffer (pH9.0) for 15 min; The section was incubated with ZO-1 Monoclonal Antibody, Unconjugated (TMAB-14456) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L Secondary Antibody-HRP and DAB staining.</p> <p>3. Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in EDTA buffer (pH9.0) for 15 min; The section was incubated with ZO-1 Monoclonal Antibody, Unconjugated (TMAB-14456) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L Secondary Antibody-HRP and DAB staining.</p>
Verified Activity:	<p>4. Paraformaldehyde-fixed, paraffin embedded Human Fundus; Antigen retrieval by boiling in EDTA buffer (pH9.0) for 15 min; The section was incubated with ZO-1 Monoclonal Antibody, Unconjugated (TMAB-14456) at 1: 200 overnight at 4°C, followed by conjugation to the Goat Anti-Rabbit IgG H&L Secondary Antibody-HRP and DAB staining.</p> <p>5. 25 µg total protein per lane of various lysates (see on figure) probed with ZO-1 monoclonal antibody, unconjugated (TMAB-14456) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r. T. for 60 min.</p> <p>6. The MCF-7 (H) cells were fixed with 4% PFA (10 min at r. T.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, the cells then were incubated in 5% BSA to block non-specific protein-protein interactions (30 min at r. T.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green): Rabbit Anti-ZO-1/TJP1 antibody (TMAB-14456): 1 µg/10⁶ cells; Isotype Control (orange): Rabbit IgG. Blank control (black): PBS. Acquisition of 20,000 events was performed.</p>
Application:	IHC-P,IHC-Fr,IF,FCM,WB
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test; WB: 1:500-2000

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein: human ZO-1 protein

Antigen Species: Human

Gene ID: 7082

Uniprot ID: Q07157

Research Background

This gene encodes a member of the membrane-associated guanylate kinase (MAGUK) family of proteins, and acts as a tight junction adaptor protein that also regulates adherens junctions. Tight junctions regulate the movement of ions and macromolecules between endothelial and epithelial cells. The multidomain structure of this scaffold protein, including a postsynaptic density 95/disc-large/zona occludens (PDZ) domain, a Src homology (SH3) domain, a guanylate kinase (GuK) domain and unique (U) motifs all help to co-ordinate binding of transmembrane proteins, cytosolic proteins, and F-actin, which are required for tight junction function. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2017]

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