Data Sheet (Cat.No.TMAB-01998)

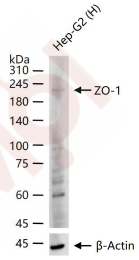
Anti-ZO-1/TJP1 Polyclonal Antibody

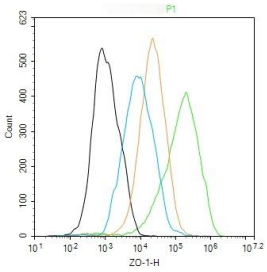
Product Details

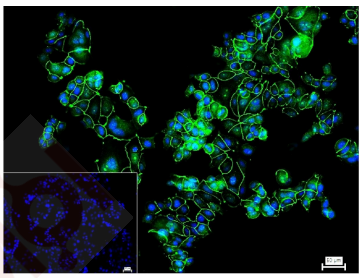
Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 191 kDa. Actual: 220 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. 25 μg total protein per Lane of various lysates probed with ZO-1 polyclonal antibody, unconjugated (TMAB-01998) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at RT for 60 min. 2. The MCF-7 (H) cells were incubated in 5% BSA to block non-specific protein-protein interactions (30 min at room temperature). Primary Antibody (green): Rabbit Anti-ZO-1 antibody (TMAB-01998): 1 μg/10^6 cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF488: 1 μg/test. Isotype Control (orange): Rabbit IgG. Blank control (black): PBS. 3. The MCF-7 (H) cells were incubated in 5% BSA to block non-specific protein-protein interactions (30 min at room temperature). Primary Antibody (green): Rabbit Anti-ZO-1 antibody (TMAB-01998): 1 μg/10^6 cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF488: 1 μg/test. Isotype Control (orange): Rabbit IgG. Blank control (black): PBS.







Application:	FCM,ICC/IF,WB
Recommended	FCM=1 μg/Test; ICC/IF=1:100-500; WB=1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human ZO-1
Antigen Species:	Human
Gene ID:	7082
Uniprot ID:	Q07157
Synonyms:	Tight junction protein 1;ZO1;Tight junction protein ZO-1;Zona occludens protein 1;Zonula occludens protein 1;TJP1
Biology Area:	Plasma Membrane

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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