

ZO1 Rabbit pAb

CatalogNo: YN1410

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Pig

Applications

- WB, IF, ELISA

MW

- 192kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-2000

IF 1:100-300

ELISA 1:5000-20000

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from part region of human protein. AA1600-1700

Specificity ZO1 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name TJP1 ZO1

Protein Name Tight junction protein ZO-1 (Tight junction protein 1) (Zona occludens protein 1) (Zonula occludens protein 1)

Organism	Gene ID	UniProt ID
Human	7082 ;	Q07157 ;
Mouse		P39447 ;

Cellular Localization Cell membrane ; Peripheral membrane protein ; Cytoplasmic side . Cell junction, tight junction . Cell junction . Cell junction, gap junction. Cell projection, podosome . Moves from the cytoplasm to the cell membrane concurrently with cell-cell contact (PubMed:7798316). At podosomal sites, is predominantly localized in the ring structure surrounding the actin core (PubMed:20930113). Colocalizes with SPEF1 at sites of cell-cell contact in intestinal epithelial cells (PubMed:31473225). .

Tissue specificity The alpha-containing isoform is found in most epithelial cell junctions. The short isoform is found both in endothelial cells and the highly specialized epithelial junctions of renal glomeruli and Sertoli cells of the seminiferous tubules.

Function Domain:The second PDZ domain mediates interaction with GJA12.,Function:The N-terminal may be involved in transducing a signal required for tight junction assembly, while the C-terminal may have specific properties of tight junctions. The alpha domain might be involved in stabilizing junctions.,PTM:Phosphorylated.,similarity:Belongs to the MAGUK family.,similarity:Contains 1 guanylate kinase-like domain.,similarity:Contains 1 PDZ (DHR) domain.,similarity:Contains 1 SH3 domain.,similarity:Contains 1 ZU5 domain.,similarity:Contains 3 PDZ (DHR) domains.,subcellular location:Movement of ZO-1 from the cytoplasm to membrane is an early event occurring concurrently with cell-cell contact.,subunit:Interacts with HSPA4 and KIRREL1 (By similarity). Homodimer, and heterodimer with TJP2/ZO-2 and TJP3/ZO-3. Interacts with occludin, claudins, CGN/cingulin, CXADR, GJA12, GJD3 and UBN1.,tissue specificity:The alpha-containing isoform is found in most epithelial cell junctions. The short isoform is found both in endothelial cells and the highly specialized epithelial junctions of renal glomeruli and Sertoli cells of the seminiferous tubules.,

Validation Data

Contact information

Orders: order@immunoway.com
Support: tech@immunoway.com
Telephone: 877-594-3616 (Toll Free), 408-747-0185
Website: <http://www.immunoway.com>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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