bsm-41327R **[Primary Antibody]**

TJP1 | ZO-1 Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 4F3
GeneID: 7082
SWISS: Q07157
Target: TJP1 | ZO-1
Immunogen: Recombinant human ZO-1 protein: 1467-1748/1748.
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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]

Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1:50-200)

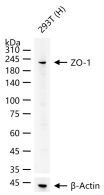
Reactivity: Human, Mouse, Rat

Predicted MW.: 191 kDa

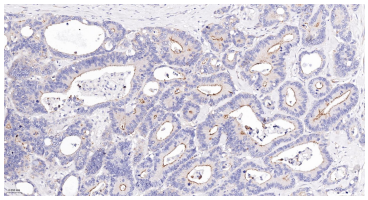
Observed MW.: 240 kDa

Subcellular Location: Cell membrane ,Cytoplasm

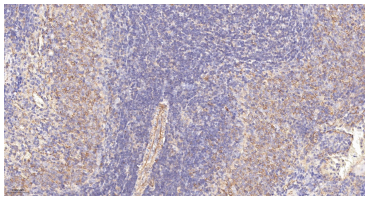
VALIDATION IMAGES



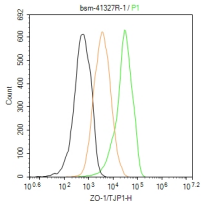
25 ug total protein per lane of various lysates (see on figure) probed with ZO-1 monoclonal antibody, unconjugated (bsm-41327R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with ZO-1 Monoclonal Antibody, Unconjugated (bsm-41327R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Rat Spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with ZO-1 Monoclonal Antibody, Unconjugated (bsm-41327R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



The MCF-7 (H) cells were fixed with 4% PFA (10

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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 (bsm-41327R): 1 µg/10^6 cells; Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=26.8]** Lei Liu. et al. A Universal Strategy for BBB Transport Mediated by an Inflammatory Receptor Antagonist for Neuroprotection in Ischemic Stroke. ADV MATER. 2025 Sep;:e10035 WB,IF ;Mouse. 40922536
- **[IF=17.1]** Lei Liu. et al. Myricetin Oligomer Triggers Multi-Receptor Mediated Penetration and Autophagic Restoration of Blood-Brain Barrier for Ischemic Stroke Treatment. ACS NANO. 2024;XXXX(XXX):XXX-XXX WB ;Mouse. 38533773
- **[IF=8.8]** Hui Zhao. et al. Chitosan-selenium nanoparticles mitigate fluoride-induced bone injury by regulating OPG/RANKL/NF-κB pathway through the gut-bone axis. FOOD RES INT. 2026 Oct;242:119804 IF,WB ;Mouse. 10.1016/j.foodres.2026.119804
- **[IF=7]** Qianwen Zheng. et al. Camel milk endogenous peptides ameliorated hyperglycemia in high-fat diet-fed C57BL/6 J mice in association with modulation of gut microbiota and the IRS/Akt and JNK/p38 pathways. FOOD RES INT. 2025 Apr;:116471 WB ;Mouse. 40382047
- **[IF=5.3]** Xu Wenxiu. et al. Limonene alleviated ulcerative colitis via anti-inflammation, anti-oxidation and regulating intestinal microenvironment in vivo and in vitro. INFLAMMOPHARMACOLOGY. 2025 Sep;:1-19 IHC,IF ;Human,Mouse. 40986263

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