

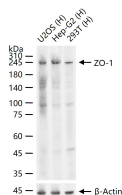
bsm-41327M**[Primary Antibody]****TJP1 | ZO-1 Mouse mAb****BioSS**
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— DATASHEET —**Host:** Mouse**Clonality:** Monoclonal**CloneNo.:** 12A7**GeneID:** 7082**SWISS:** Q07157**Target:** TJP1 | ZO-1**Purification:** affinity purified by Protein A**Concentration:** 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 (1:1000-5000)**Reactivity:** Human**Predicted MW.:** 191 kDa**Observed MW.:** 245 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-41327M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

— SELECTED CITATIONS —

- **[IF=7.7]** Zhineng Liu. et al. Proline rich-39 (PR-39) antimicrobial protein alleviated lipopolysaccharide-induced intestinal barrier dysfunction in piglets by altering intestinal flora associated bile acid metabolism and in turn regulating TGR-5/NF-κB/MLCK/MLC pathway.. International Journal of Biological Macromolecules. 2025 Mar 10;307(Pt 1):141930. IHC ; Pig. 40074117
- **[IF=6.2]** Guirong Liu. et al. Sialic Acid (Neu5Ac)-Driven Modulation of Intestinal Sialylation as a Novel Approach to Mitigating Allergic Reactions to Shrimp Tropomyosin. J AGR FOOD CHEM. 2025;73(22):13516–13530 IHC ; Mouse.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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- **[IF=5.4]** Ying Gao. et al. Xue-Jie-San alleviates Crohn's disease through suppressing endothelial cell pyroptosis via the TLR4/NF- κ B/NLRP3 pathway. J ETHNOPHARMACOL. 2026 Jul;366:121648 WB ;Human,Rat. 41936260
- **[IF=3.8]** Yuening Li. et al. Resveratrol Alleviated Intensive Exercise-Induced Fatigue Involving in Inhibiting Gut Inflammation and Regulating Gut Microbiota. FOOD SCI NUTR. 2025 May;13(6):e70304 IHC ;Mouse. 40417740
- **[IF=1.2]** Siyu Dai. et al. α -Glycerol Monolaurate Promotes Tight Junction Assembly and Enhances Epithelial Barrier Function in IPEC-J2 Cells and Partridge Chicks. ANIM SCI J. 2025 Jun;96(1):e70067 WB,IF ;Chicken,Pig. 40537885