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

ZO-1 Mouse mAb

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DATASHEET

Host: Mouse

Clonality: Monoclonal **CloneNo.:** 12A7

GeneID: 7082 **SWISS:** Q07157

Target: 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]

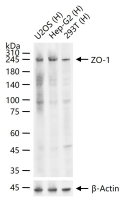
Applications: **WB** (1:500-1:2000)
Flow-Cyt (1μg/Test)
ICC/IF (1:50-1:200)

Reactivity: Human

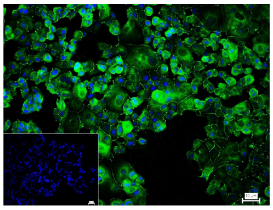
Predicted MW.: 191

Subcellular Location: Cell membrane ,Cytoplasm

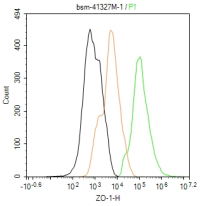
VALIDATION IMAGES



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.



4% Paraformaldehyde-fixed MCF-7 (H) cell; Antibody incubation with (ZO-1) monoclonal Antibody, unconjugated (bsm-41327M) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Mouse IgG antibody (green, bs-650296G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.



The MCF-7 (H) cells 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): Mouse Anti-ZO-1 antibody (bsm-41327M): 1 μg/10^6 cells; Isotype Control (orange): Mouse IgG (bs-0296P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

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. 40396838
- **[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