bsm-52037M **[Primary Antibody]**

CLDN1 Mouse mAb

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DATASHEET

Host: Mouse
Isotype: IgG1
Clonality: Monoclonal
CloneNo.: 8G1
GeneID: 9076
SWISS: O95832
Target: CLDN1
Purification: affinity purified by Protein G
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: Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. The protein encoded by this gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. Loss of function mutations result in neonatal ichthyosis-sclerosing cholangitis syndrome. [provided by RefSeq, Jul 2008]

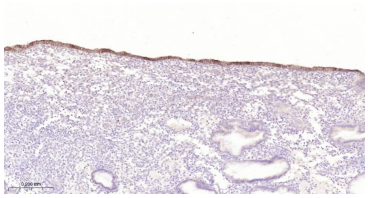
Applications: **IHC-P** (1:50-200)
IHC-F (1:50-200)
IF (1:50-200)

Reactivity: Human, Mouse, Rat

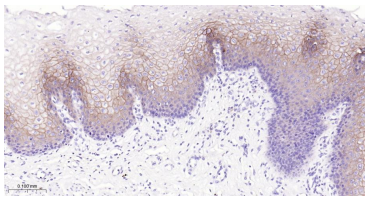
Predicted MW.: 23 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded Human Uterus; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CLDN1 Monoclonal Antibody, Unconjugated(bsm-52037M) at 1:200 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Esophagus; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with CLDN1 Monoclonal Antibody, Unconjugated(bsm-52037M) at 1:200 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.

SELECTED CITATIONS

- **[IF=16.6]** Liu Chunxiao. et al. Targeting P2Y14R protects against necroptosis of intestinal epithelial cells through PKA/CREB/RIPK1 axis in ulcerative colitis. NAT COMMUN. 2024 Mar;15(1):1-16 IF ;Mouse. 38453952
- **[IF=6.1]** Peiyi Wang. et al. Phenolics from Dendrobium officinale Leaf Ameliorate Dextran Sulfate Sodium-Induced Chronic Colitis by Regulating Gut Microbiota and Intestinal Barrier. J AGR FOOD CHEM. 2023;XXXX(XXX):XXX-XXX WB ;Mouse. 37883687

- **[IF=5.6]** Jiabin Zhan. et al. CircMIRLET7BHG, upregulated in an m6A-dependent manner, induces the nasal epithelial barrier dysfunction in allergic rhinitis pathogenesis. INT IMMUNOPHARMACOL. 2023 Dec;125:111162 IF,WB ;Human,Mouse. 37976602
- **[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. Alleviation of Gypenosides on Peripheral and Central Fatigue via Anti‐Inflammation, Anti‐Oxidation and Neurotransmitter Regulation. FOOD SCI NUTR. 2025 Jun;13(6):e70436 IHC ;Mouse. 40535920