bs-1329R **[Primary Antibody]**

ZO-1/TJP1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 7082 **SWISS:** Q07157

Target: ZO-1/TJP1

Immunogen: KLH conjugated synthetic peptide derived from human ZO-1: 1551-1702/1733.

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]

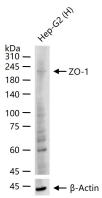
Applications: **WB** (1:500-2000)
Flow-Cyt (1μg/Test)
ICC/IF (1:50-200)

Reactivity: Human

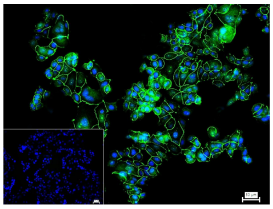
Predicted MW.: 191 kDa

Subcellular Location: Cell membrane ,Cytoplasm

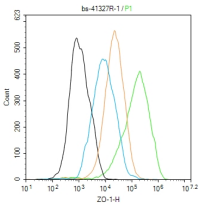
VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with ZO-1 polyclonal antibody, unconjugated (bs-1329R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



The MCF-7 (H) cells were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.). Primary Antibody (green): Rabbit Anti-ZO-1 antibody (bs-1329R): 1 μg/10^6 cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF488 (bs-60295G-BF488): 1 μg/test. Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.



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SELECTED CITATIONS

- **[IF=20.722]** Yuting Qin. et al. Colonic mucus-accumulating tungsten oxide nanoparticles improve the colitis therapy by targeting Enterobacteriaceae. Nano Today. 2021 Aug;39:101234 IF ;Mouse. 10.1016/j.nantod.2021.101234

- **[IF=17.521]** Yingni Xu. et al. Biomimetic Convex Implant for Corneal Regeneration Through 3D Printing. Advanced Science. 2023 Feb;:2205878 IF ;Rabbit. 36775872
- **[IF=18]** Qingya Liu. et al. Camptothecin multifunctional nanoparticles effectively achieve a balance between the efficacy of breast cancer treatment and the preservation of intestinal homeostasis. BIOACT MATER. 2024 Nov;41:413 IF ;Mouse,Human. 39184827
- **[IF=14.7]** Chao Chen. et al.Obesity-driven oleoylcarnitine accumulation in tumor microenvironment promotes breast cancer metastasis-like phenotype.ACTA PHARMACEUTICA SINICA B. Western Blot ;Mouse. https://doi.org/10.1016/j.apsb.2025.02.026
- **[IF=13.8]** Jinzhu Geng. et al.Role of nasal microbiota in regulating host anti-influenzaxa0immunity in dogs.MICROBIOME.2025 Jan 27;13(1):27. IF ;Rabbit. 39871363