

bs-23849R**[Primary Antibody]****Bioss**
ANTIBODIES

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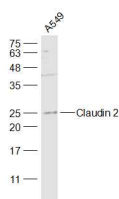
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Claudin 2 Rabbit pAb**— DATASHEET —**

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000)
Clonality: Polyclonal		Reactivity: Human (predicted: Mouse, Rat, Rabbit, Pig, Sheep, Cow, Dog, Horse)
GeneID: 9075	SWISS: P57739	Predicted MW.: 25 kDa
Target: Claudin 2		Subcellular Location: Cell membrane
Immunogen: KLH conjugated synthetic peptide derived from human Claudin 2: 101-200/230. < Extracellular >		
Purification: affinity purified by Protein A		
Concentration: 1mg/1ml		
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: The claudin superfamily consists of structurally related proteins that are important structural and functional components of tight junctions. Claudin-2, also known as CLDN2 or SP82, is a 230 amino acid multi-pass membrane protein that localizes to the cell junctions and belongs to the claudin superfamily. Able to form homopolymers of heteropolymers with other claudin family members, claudin-2 plays an essential role in mediating calcium-independent cell-adhesion activity that is necessary for tight junction-specific obliteration of the intercellular space. Overexpression of claudin-2 is associated with a variety of diseases, including lung cancer, colorectal cancer, gastrointestinal carcinomas and inflammatory bowel disease, further affirming the importance of claudin-2 in cell adhesion. The gene encoding claudin-2 maps to human chromosome X, which contains nearly 153 million base pairs and houses over 1,000 genes.		

— VALIDATION IMAGES —

Sample: A549(Human) Cell Lysate at 30 ug
Primary: Anti-Claudin 2 (bs-23849R) at 1/1000
dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 25 kD Observed band size: 25 kD

— SELECTED CITATIONS —

- **[IF=5.162]** Lei Zhao. et al. Proteomic analysis reveals the molecular mechanism of Hippophae rhamnoides polysaccharide intervention in LPS-induced inflammation of IPEC-J2 cells in piglets. Int J Biol Macromol. 2020 Dec;164:3294 WB ;Pig. 32888998
- **[IF=5]** Zhang Jing. et al. Bioconversion of feather waste into bioactive nutrients in water by Bacillus licheniformis WHU. APPL MICROBIOL BIOT. 2023 Sep;:1-16 WB ;MOUSE. 37750916

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