

For Research Use Only

# Claudin 1 Monoclonal antibody, PBS Only

Catalog Number: 68969-4-PBS



## Basic Information

|                                                            |                                              |                                                       |
|------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|
| <b>Catalog Number:</b><br>68969-4-PBS                      | <b>GenBank Accession Number:</b><br>BC012471 | <b>Purification Method:</b><br>Protein G purification |
| <b>Size:</b><br>100ug, Concentration: 1 mg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>9076                | <b>CloneNo.:</b><br>2D6F6                             |
| <b>Source:</b><br>Mouse                                    | <b>UNIPROT ID:</b><br>O95832                 |                                                       |
| <b>Isotype:</b><br>IgG1                                    | <b>Full Name:</b><br>claudin 1               |                                                       |
| <b>Immunogen Catalog Number:</b><br>AG29478                | <b>Calculated MW:</b><br>211 aa, 23 kDa      |                                                       |
|                                                            | <b>Observed MW:</b><br>20-23 kDa             |                                                       |

## Applications

**Tested Applications:**  
WB, IF/ICC, Indirect ELISA

**Species Specificity:**  
human, mouse, rat, pig

## Background Information

Claudins are a family of proteins that are the most important components of the tight junctions, where they establish the paracellular barrier that controls the flow of molecules in the intercellular space between the cells of an epithelium. 23 claudins have been identified. They are small (20-27 kilodalton (kDa)) proteins with similar structures. They have four transmembrane domains, with the N-terminus and the C-terminus in the cytoplasm. Claudin-1 is an integral membrane protein expressed primarily in keratinocytes and normal mammary epithelial cells. Claudin 1 forms tight junctions with other claudin proteins and plays an important role in the intestinal epithelial barrier.

## Storage

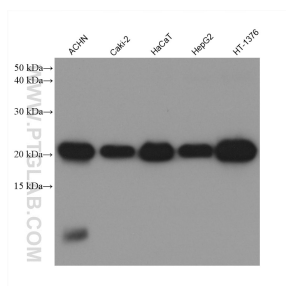
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

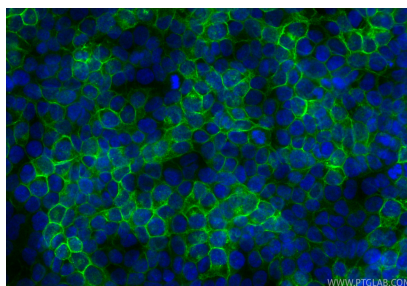
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68969-4-Ig (Claudin 1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68969-4-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Methanol) fixed HaCaT cells using Claudin 1 antibody (68969-4-Ig, Clone: 2D6F6) at dilution of 1:1000 and CoraLite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). This data was developed using the same antibody clone with 68969-4-PBS in a different storage buffer formulation.