

For Research Use Only

Claudin 1 Monoclonal antibody

Catalog Number: 68969-4-Ig **1 Publications**



Basic Information

Catalog Number: 68969-4-Ig	GenBank Accession Number: BC012471	Purification Method: Protein G purification
Source: Mouse	GeneID (NCBI): 9076	CloneNo.: 2D6F6
Isotype: IgG1	UNIPROT ID: O95832	Recommended Dilutions: WB: 1:5000-1:50000 IF/ICC: 1:500-1:2000
Immunogen Catalog Number: AG29478	Full Name: claudin 1	
	Calculated MW: 211 aa, 23 kDa	
	Observed MW: 20-23 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls:
Cited Applications: IHC	WB : ACHN cells, pig skin tissue, Caki-1 cells, HaCaT cells, HepG2 cells, HT-1376 cells, rat skin tissue, mouse skin tissue
Species Specificity: human, mouse, rat, pig	IF/ICC : HaCaT cells,
Cited Species: mouse	

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Yifan Zhang	40907405	Phytomedicine	IHC

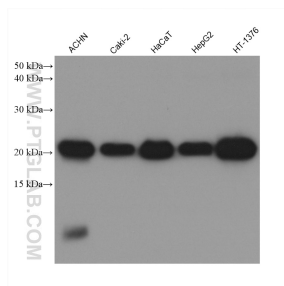
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

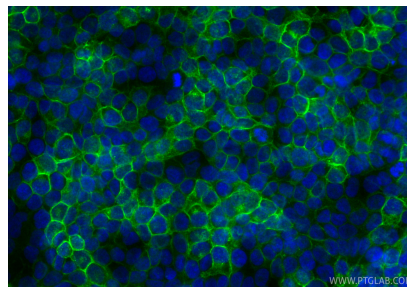
For technical support and original validation data for this product please contact:
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Selected Validation Data



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.



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).