

For Research Use Only

# Claudin 1 Polyclonal antibody

Catalog Number: 28674-1-AP

11 Publications



## Basic Information

<b>Catalog Number:</b> 28674-1-AP	<b>GenBank Accession Number:</b> BC012471	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 550 µg/ml by Nanodrop and 333 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 9076	<b>Recommended Dilutions:</b> WB 1:1000-1:8000 IHC 1:50-1:500 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> claudin 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 211 aa, 23 kDa	
<b>Immunogen Catalog Number:</b> AG29269	<b>Observed MW:</b> 20-23 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, WB	<b>WB:</b> A431 cells, mouse skin tissue, rat skin tissue
<b>Species Specificity:</b> Human, Mouse, Rat	<b>IHC:</b> human skin cancer tissue, mouse skin tissue
<b>Cited Species:</b> mouse, pig, rat	<b>IF:</b> A431 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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 very similar structure. They have four transmembrane domains, with the N-terminus and the C-terminus in the cytoplasm. Claudin-1 is expressed primarily in keratinocytes and normal mammary epithelial cells.

## Notable Publications

Author	Pubmed ID	Journal	Application
Ata Ur Rehman	36056976	AMB Express	WB
Gayathri Visakan	34813898	Matrix Biol	IF
Jie Ren	34804049	Front Immunol	WB

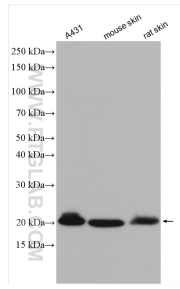
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

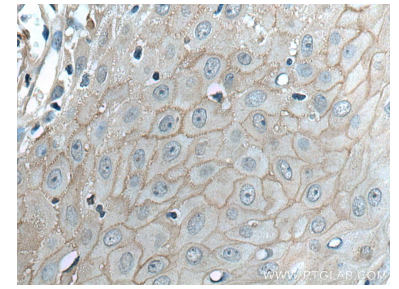
## Selected Validation Data



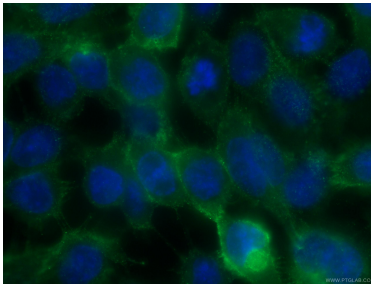
Various lysates were subjected to SDS PAGE followed by western blot with 28674-1-AP (Claudin 1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 28674-1-AP (Claudin 1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 28674-1-AP (Claudin 1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using 28674-1-AP (Claudin 1 antibody), at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).