

Claudin 18 Polyclonal antibody

Catalog Number: 21126-1-AP

7 Publications

Basic Information

Catalog Number: 21126-1-AP	GenBank Accession Number: BC146668	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 500 µg/ml by Nanodrop and 433 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 51208	Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:400 IF 1:50-1:500
Source: Rabbit	Full Name: claudin 18	
Isotype: IgG	Calculated MW: 261 aa, 28 kDa	
Immunogen Catalog Number: AG15517	Observed MW: 28-29 kDa	

Applications

Tested Applications: IF, IHC, IP, WB, ELISA	Positive Controls:
Cited Applications: IF, IHC, WB	WB: mouse kidney tissue,
Species Specificity: human, mouse, rat	IP: mouse stomach tissue,
Cited Species: human, rat, mouse	IHC: human stomach tissue, human ovary tumor tissue, human pancreas cancer tissue, human stomach cancer tissue
	IF: MKN-45 cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Claudin 18 (CLDN18) belongs to the large claudin family of proteins, which are tetraspan transmembrane proteins of tight junctions (PMID: 11585919; 18036336). Claudins exhibit specific patterns of expression in different tissues (PMID: 15447685). CLDN18 is specifically expressed in the stomach and lung. CLDN18 has two alternatively spliced variants, CLDN18.1 and CLDN18.2. CLDN18.2 is a highly selective gastric lineage marker that determines the gastric phenotype in a neoplastic condition, whereas CLDN18.1 is lung specific (PMID: 11585919; 21832145). Altered CLDN18 expression has been reported in various human malignancies, including gastric cancer, lung adenocarcinoma, and pancreatic neoplasm (PMID: 17459057; 22076167; 21832145). This antibody can recognize both CLDN18.1 and CLDN18.2.

Notable Publications

Author	Pubmed ID	Journal	Application
Chunyan Wang	32160957	J Stroke Cerebrovasc Dis	IF
Ruixue Yang	31173170	Int J Mol Med	WB, IF
Yang Chen	35284551	Ann Transl Med	IHC

Storage

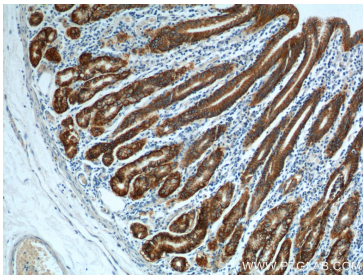
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

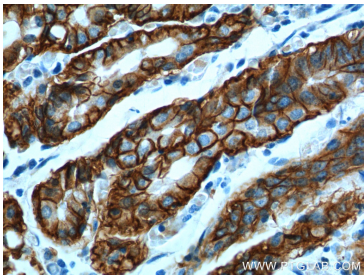
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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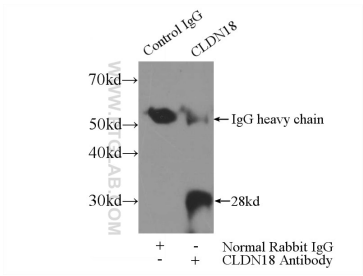
Selected Validation Data



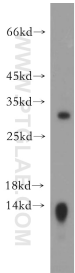
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 21126-1-AP (Claudin 18 antibody at dilution of 1:200 (under 10x lens).



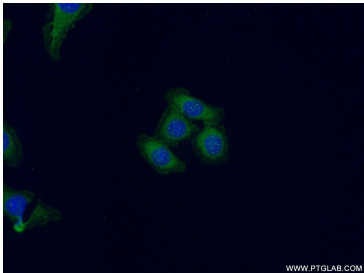
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 21126-1-AP (Claudin 18 antibody at dilution of 1:200 (under 40x lens).



IP Result of anti-Claudin 18 (IP:21126-1-AP, 3ug; Detection:21126-1-AP 1:500) with mouse stomach tissue lysate 4000ug.



mouse kidney tissue were subjected to SDS PAGE followed by western blot with 21126-1-AP (Claudin 18 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed MKN-45 cells using 21126-1-AP (Claudin 18 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).