For Research Use Only

Claudin 18 Polyclonal antibody

Catalog Number:21126-1-AP 7 Publications

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Basic Information

Catalog Number:
21126-1-AP

Size:
500 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG15517

GenBank Accession Number:
BC146668

GeneID (NCBI):
51208

UNIPROT ID:
P56856

Full Name:
claudin 18

Calculated MW:
261 aa, 28 kDa

Observed MW:
28-29 kDa

Purification Method:
Antigen affinity purification

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

Applications

Tested Applications:
IF/ICC, IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

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

Positive Controls:

WB : mouse kidney tissue,

IP : mouse stomach tissue,

IHC : human stomach tissue, human ovary tumor tissue, human pancreas cancer tissue, human stomach cancer tissue

IF : MKN-45 cells,

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

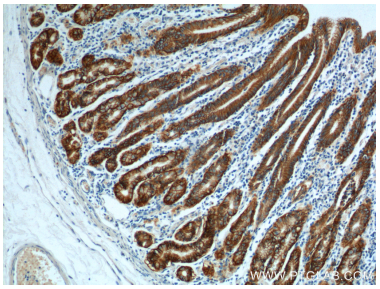
Storage

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

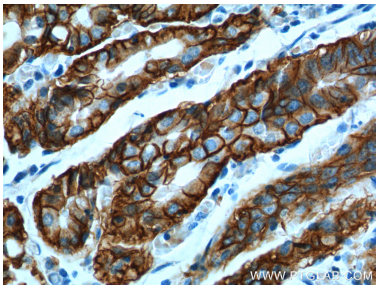
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

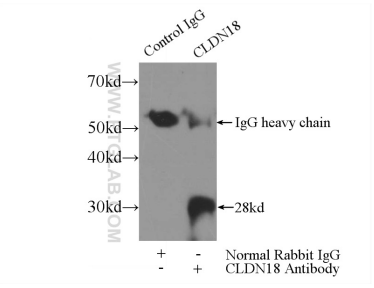
Selected Validation Data



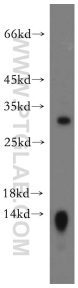
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 21126-1-AP (Claudin 18 antibody at dilution of 1:200 (under 10x lens).



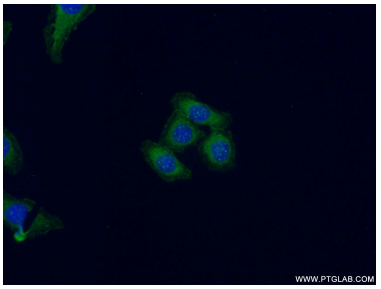
Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 21126-1-AP (Claudin 18 antibody at dilution of 1:200 (under 40x lens).



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℃ 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).