

Claudin 18 Monoclonal antibody

Catalog Number: 66167-1-Ig 3 Publications

Basic Information

Catalog Number:

66167-1-Ig

Size:

1600 µg/ml

Source:

Mouse

Isotype:

IgG2a

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:

29 kDa

Purification Method:

Protein A purification

CloneNo.:

5G7F2

Recommended Dilutions:

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

Applications

Tested Applications:

IHC, IP, ELISA

Cited Applications:

IF, IHC

Species Specificity:

human, mouse

Cited Species:

human, 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:

IP: mouse stomach tissue,

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

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
Nobuya Kurabe	27190696	World J Gastrointest Pathophysiol	
Bailey A Bye	37645960	bioRxiv	IF
Chih-Ming Weng	37536562	Mucosal Immunol	IHC, IF

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:

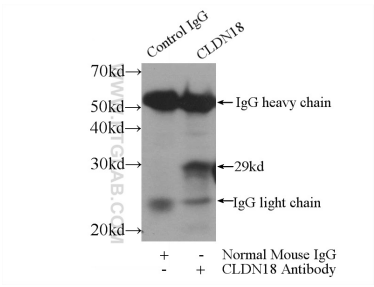
T: 4006900926

E: Proteintech-CN@ptglab.com

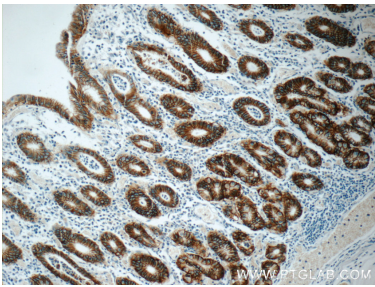
W: ptgcn.com

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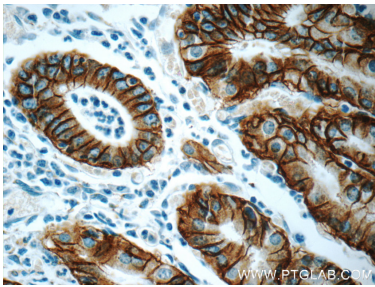
Selected Validation Data



IP result of anti-Claudin 18 (IP:66167-1-Ig, 3ug; Detection:66167-1-Ig 1:300) with mouse stomach tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 66167-1-Ig (Claudin 18 antibody at dilution of 1:1000).



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