

For Research Use Only

Claudin 4 Recombinant monoclonal antibody

Catalog Number: 86433-8-RR



Basic Information

Catalog Number:

86433-8-RR

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC000671

GeneID (NCBI):

1364

UNIPROT ID:

O14493

Full Name:

claudin 4

Calculated MW:

22 kDa

Observed MW:

18-20 kDa

Purification Method:

Protein A purification

CloneNo.:

251202E6

Recommended Dilutions:

WB: 1:1000-1:4000

IHC: 1:500-1:2000

Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human

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 : MCF-7 cells, MDA-MB-231 cells, human placenta tissue

IHC : human colon tissue,

Background Information

Claudins are a family of proteins that are the most important components of tight junctions, where they establish the paracellular barrier that controls the flow of molecules in the intercellular space between the cells of an epithelium. They are small (20-27 kDa) proteins with similar structures. They have four transmembrane domains, with the N- and C-termini in the cytoplasm. This antibody is specifically against Claudin 4. Claudin 4 is overexpressed in a variety of cancers. It can be used as a predictor of recurrent malignant pleural effusion in patients with advanced non-small cell lung cancer (PMID: 38629624). Claudin 4 is the receptor for B. fragilis toxin (BFT), an important oncogenic protein. Blocking the interaction between BFT and Claudin-4 can inhibit the cleavage of the substrate E-cadherin by BFT and reverse the tissue damage induced by BFT in mice (PMID: 42020735).

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:

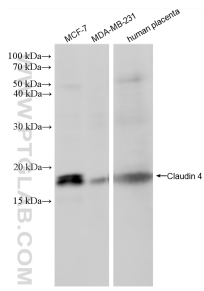
T: 4006900926

E: Proteintech-CN@ptglab.com

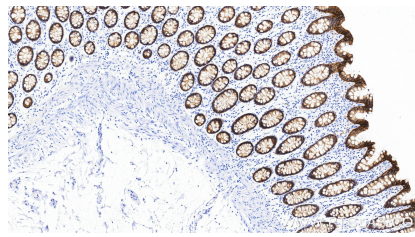
W: ptgcn.com

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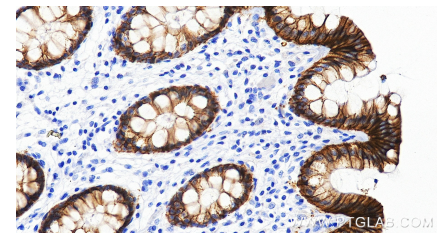
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86433-8-RR (Claudin 4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 86433-8-RR (Claudin 4 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 86433-8-RR (Claudin 4 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).