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Anti-Claudin 19 Antibody

Rabbit polyclonal antibody to Claudin 19
Catalog # AP60126

Specification

Anti-Claudin 19 Antibody - Product Information

Application	**WB**
Primary Accession	Q8N6F1
Reactivity	**Human, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**23229**

Anti-Claudin 19 Antibody - Additional Information

Gene ID 149461

Other Names
Claudin-19

Target/Specificity
Recognizes endogenous levels of Claudin 19 protein.

Dilution
WB~~WB (1/500 - 1/1000)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-Claudin 19 Antibody - Protein Information

Name CLDN19 {ECO:0000303|PubMed:25555744, ECO:0000312|HGNC:HGNC:2040}

Function
Forms paracellular channels: coassembles with CLDN16 into tight junction strands with cation-selective channels through the strands, conveying epithelial permeability in a process known as paracellular tight junction permeability (PubMed:18188451, PubMed:28028216). Involved in the maintenance of ion gradients along the nephron. In the thick ascending limb (TAL) of Henle's loop, facilitates sodium paracellular permeability from the interstitial compartment to the lumen, contributing to the lumen-positive transepithelial potential that drives paracellular magnesium and calcium reabsorption (By similarity) (PubMed:17033971, PubMed:<a href="http://www.uniprot.org/citations/25555744"

target="_blank">25555744). Forms paracellular barriers on its own. In the peripheral nervous system, represents a major constituent of the tight junctions in Schwann cells and contributes to electrical sealing. During retinal neurogenesis, may regulate the barrier properties of tight junctions in retinal pigment epithelium, required for proper retinal tissue differentiation and vision (By similarity) (PubMed:17033971, PubMed:30937396).

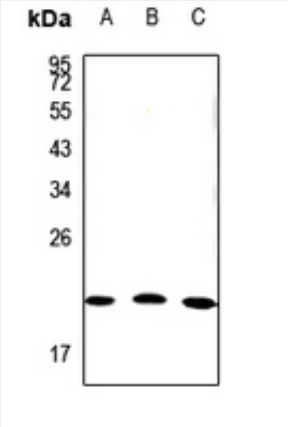
Cellular Location
Cell junction, tight junction. Cell membrane; Multi-pass membrane protein. Note=Cotrafficks with CLDN16 from ER to tight junctions. Colocalizes with CLDN16 and CLDN3 in cell- cell contact areas of the TAL spatially separated from CLDN10b paracellular channels.

Anti-Claudin 19 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Claudin 19 Antibody - Images



Western blot analysis of Claudin 19 expression in LO2 (A), HEK293T (B), A549 (C) whole cell lysates.

Anti-Claudin 19 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Claudin 19. The exact sequence is proprietary.