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CLDN19 antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI10539

Specification

CLDN19 antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	Q8N6F1
Other Accession	NM_148960, NP_683763
Reactivity	**Human, Mouse, Rat, Pig, Horse, Bovine, Dog**
Predicted	**Mouse, Pig, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**23kDa KDa**

CLDN19 antibody - C-terminal region - Additional Information

Gene ID 149461

Alias Symbol	**HOMG5**

Other Names
Claudin-19, CLDN19

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-CLDN19 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
CLDN19 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

CLDN19 antibody - C-terminal region - 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: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.

CLDN19 antibody - C-terminal region - 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