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# CLDN19 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10539

## Product Information

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| **Application** | WB |
| **Primary Accession** | Q8N6F1 |
| **Other Accession** | NM_148960, NP_683763 |
| **Reactivity** | Human, Mouse, Rat, Pig, Dog, Bovine |
| **Predicted** | Mouse, Pig, Dog, Bovine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 23229 |

## Additional Information

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| **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. |

## Protein Information

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| **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 |

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| | 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. |

## References

Konrad,M., (2006) Am. J. Hum. Genet. 79 (5), 949-957 Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.

## Images




WB Suggested Anti-CLDN19 Antibody Titration: .2-1 ug/ml
ELISA Titer: 1:625
Positive Control: Transfected 293T

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.