

Claudin 2 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51093**Specification**

Claudin 2 Antibody - Product Information

Application	WB, ICC, IHC-P, E
Primary Accession	P57739
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	24 KDa

Claudin 2 Antibody - Additional Information**Gene ID** 9075**Other Names**

Claudin-2, SP82, CLDN2

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Claudin 2. The exact sequence is proprietary.

Dilution

WB~~1:1000

ICC~~N/A

IHC-P~~N/A

E~~N/A

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

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

Claudin 2 Antibody - Protein Information**Name** CLDN2 {ECO:0000303|PubMed:31320686, ECO:0000312|HGNC:HGNC:2041}**Function**

Forms paracellular channels: polymerizes in tight junction strands with cation- and water-selective channels through the strands, conveying epithelial permeability in a process known as paracellular tight junction permeability (PubMed:<[a href="http://www.uniprot.org/citations/20460438"](http://www.uniprot.org/citations/20460438)target="_blank">20460438, PubMed:<[a href="http://www.uniprot.org/citations/36008380"](http://www.uniprot.org/citations/36008380)target="_blank">36008380). In intestinal epithelium, allows for sodium and water fluxes from the peritoneal side to the lumen of the intestine to regulate nutrient absorption and clear enteric pathogens as part of mucosal immune response (By similarity). In kidney, allows passive

sodium and calcium reabsorption across proximal tubules from the lumen back to the bloodstream (By similarity). In the hepatobiliary tract, allows paracellular water and cation fluxes in the hepatic perivenous areas and biliary epithelium to generate bile flow and maintain osmotic gradients (By similarity).

Cellular Location

Cell junction, tight junction. Cell membrane {ECO:0000250|UniProtKB:O88552}; Multi-pass membrane protein

Claudin 2 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 Cytometry](#)
- [Cell Culture](#)

Claudin 2 Antibody - Images**Claudin 2 Antibody - Background**

Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity (By similarity).

Claudin 2 Antibody - References

Sakaguchi T., et al. J. Biol. Chem. 277:21361-21370(2002).
Clark H.F., et al. Genome Res. 13:2265-2270(2003).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Wan D., et al. Proc. Natl. Acad. Sci. U.S.A. 101:15724-15729(2004).
Otsuki T., et al. DNA Res. 12:117-126(2005).