

Claudin 2 (CLDN2) Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6309b**Specification**

Claudin 2 (CLDN2) Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	P57739
Other Accession	NP_065117
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	190-220

Claudin 2 (CLDN2) Antibody (C-term) - Additional Information**Gene ID** 9075**Other Names**

Claudin-2, SP82, CLDN2

Target/Specificity

This Claudin 2 (CLDN2) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 190-220 amino acids from the C-terminal region of human Claudin 2 (CLDN2).

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Claudin 2 (CLDN2) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Claudin 2 (CLDN2) Antibody (C-term) - 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:[20460438](#), PubMed:[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

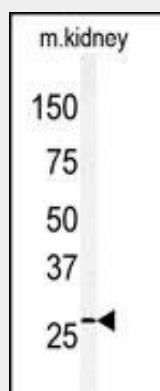
Cell junction, tight junction. Cell membrane {ECO:0000250|UniProtKB:O88552}; Multi-pass membrane protein

Claudin 2 (CLDN2) Antibody (C-term) - 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 (CLDN2) Antibody (C-term) - Images



Western blot analysis of anti-CLDN2 Antibody (C-term) (Cat. #AP6309b) in mouse kidney tissue lysates (35ug/lane). CLDN2 (arrow) was detected using the purified Pab.

Claudin 2 (CLDN2) Antibody (C-term) - Background

Members of the claudin protein family, such as CLDN2, are expressed in an organ-specific manner and regulate the tissue-specific physiologic properties of tight junctions.

Claudin 2 (CLDN2) Antibody (C-term) - References

Morita, K., Proc. Natl. Acad. Sci. U.S.A. 96 (2), 511-516 (1999)
Furuse, M., J. Cell Biol. 141 (7), 1539-1550 (1998)