10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CLDN4 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9615b

Specification

CLDN4 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	O14493
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**22077**
Antigen Region	**171-197**

CLDN4 Antibody (C-term) - Additional Information

Gene ID 1364

Other Names
Claudin-4, Clostridium perfringens enterotoxin receptor, CPE-R, CPE-receptor, Williams-Beuren syndrome chromosomal region 8 protein, CLDN4, CPER, CPETR1, WBSCR8

Target/Specificity
This CLDN4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 171-197 amino acids from the C-terminal region of human CLDN4.

Dilution
WB~~1:1000

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
CLDN4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CLDN4 Antibody (C-term) - Protein Information

Name CLDN4

Function Channel-forming tight junction protein that mediates paracellular chloride transport in the kidney. Plays a critical role in the paracellular reabsorption of filtered chloride in the kidney

collecting ducts. Claudins play a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity.

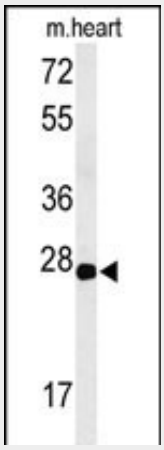
Cellular Location
Cell junction, tight junction {ECO:0000250|UniProtKB:O35054}. Cell membrane; Multi-pass membrane protein. Note=CLDN4 is required for tight junction localization in the kidney. {ECO:0000250|UniProtKB:O35054}

CLDN4 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 Cytomety
- Cell Culture

CLDN4 Antibody (C-term) - Images



Western blot analysis of CLDN4 Antibody (C-term) (Cat. #AP9615b) in mouse heart tissue lysates (35ug/lane). CLDN4 (arrow) was detected using the purified Pab.

CLDN4 Antibody (C-term) - Background

CLDN4 is an integral membrane protein, which belongs to the claudin family. The protein is a component of tight junction strands and may play a role in internal organ development and function during pre- and postnatal life.

CLDN4 Antibody (C-term) - References

Papageorgis, P., et al. Cancer Res. 70(3):968-978(2010)
Kimura, J., et al. J. Biol. Chem. 285(1):401-408(2010)
Robertson, S.L., et al. Infect. Immun. 78(1):505-517(2010)
Seckin, Y., et al. Acta Gastroenterol. Belg. 72(4):407-412(2009)