

Claudin 4 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51094**Specification**

Claudin 4 Antibody - Product Information

Application	WB
Primary Accession	O14493
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22 KDa
Antigen Region	141 - 200

Claudin 4 Antibody - 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

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Claudin 4. The exact sequence is proprietary.

Dilution

WB~~ 1:1000

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 4 Antibody - Protein Information**Name** CLDN4 {ECO:0000303|PubMed:35773259, ECO:0000312|HGNC:HGNC:2046}**Function**

Can associate with other claudins to regulate tight junction structural and functional strand dynamics (PubMed: [35773259](http://www.uniprot.org/citations/35773259), PubMed: [36008380](http://www.uniprot.org/citations/36008380)). May coassemble with CLDN8 into tight junction strands containing anion-selective channels that convey paracellular chloride permeability in renal collecting ducts (By similarity) (PubMed: [36008380](http://www.uniprot.org/citations/36008380)). May integrate into CLDN3 strands to modulate localized tight junction barrier properties (PubMed: [35773259](http://www.uniprot.org/citations/35773259))

target="_blank">35773259, PubMed:36008380). May disrupt strand assembly of channel-forming CLDN2 and CLDN15 and inhibit cation conductance (PubMed:35773259, PubMed:36008380). Cannot form tight junction strands on its own (PubMed:35773259, PubMed:36008380).

Cellular Location

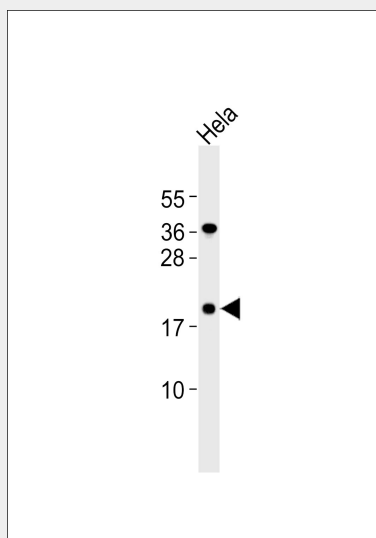
Cell junction, tight junction. Cell membrane; Multi-pass membrane protein

Claudin 4 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 4 Antibody - Images



Anti-Claudin 4 Antibody at 1:1000 dilution + HeLa whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 22 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Claudin 4 Antibody - Background

Plays a major role in tight junction-specific obliteration of the intercellular space (By similarity).

Claudin 4 Antibody - References

Katahira J.,et al.J. Biol. Chem. 272:26652-26658(1997).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Tanaka M.,et al.J. Biol. Chem. 280:42375-42382(2005).
Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).