

Claudin 4 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51094

Product Information

Application	WB
Primary Accession	O14493
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22077

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

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 , PubMed: 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). May integrate into CLDN3 strands to modulate localized tight junction barrier properties (PubMed: 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

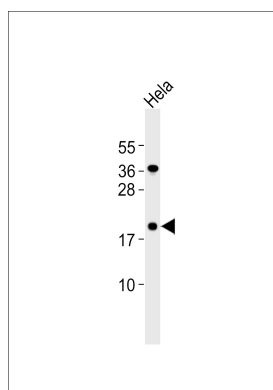
Background

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

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).

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.

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