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Claudin-4 Polyclonal Antibody
Catalog # AP69134

Specification

Claudin-4 Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IF**
Primary Accession	O14493
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**

Claudin-4 Polyclonal Antibody - Additional Information

Gene ID 1364

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

Dilution
WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
IHC-P~~N/A
IF~~1:50~200

Format
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions
-20℃

Claudin-4 Polyclonal 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, 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:<a

href="http://www.uniprot.org/citations/36008380" target="_blank">36008380). Cannot form tight junction strands on its own (PubMed:35773259, PubMed:36008380).

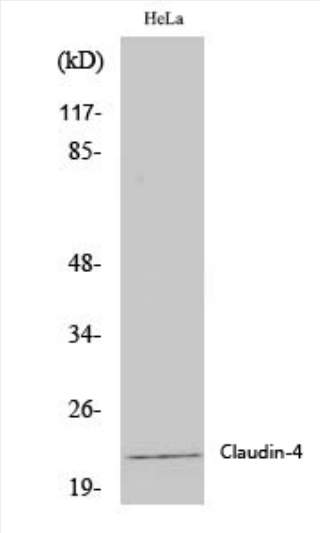
Cellular Location
Cell junction, tight junction. Cell membrane; Multi-pass membrane protein

Claudin-4 Polyclonal 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 Cytomety
- Cell Culture

Claudin-4 Polyclonal Antibody - Images



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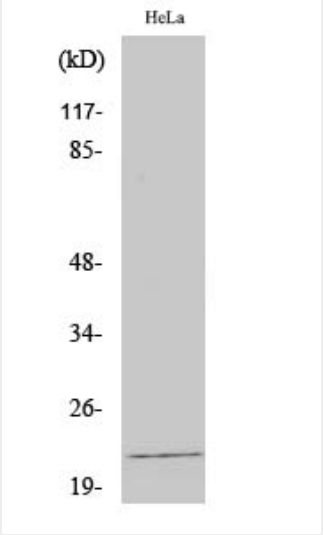

Claudin-4 Polyclonal Antibody - Background

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.