

Anti-Claudin 4 Monoclonal Antibody
Catalog # ABO14539**Specification****Anti-Claudin 4 Monoclonal Antibody - Product Information**

Application	WB, IHC, IP
Primary Accession	O14493
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

Description

Anti-Claudin 4 Monoclonal Antibody . Tested in WB, IHC, IP applications. This antibody reacts with Human.

Anti-Claudin 4 Monoclonal 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

Application Details

WB 1:500-1:1000
IHC 1:100-1:500
IP 1:20

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human Claudin 4

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-Claudin 4 Monoclonal 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:36008380). Cannot form tight junction strands on its own (PubMed:35773259, PubMed:36008380).

Cellular Location

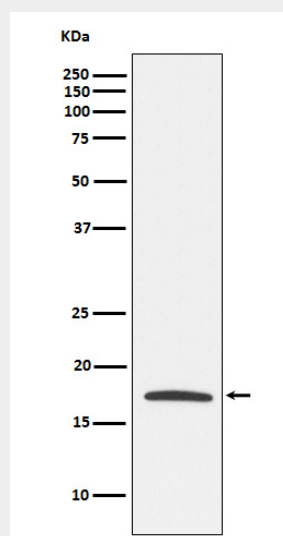
Cell junction, tight junction. Cell membrane; Multi-pass membrane protein

Anti-Claudin 4 Monoclonal 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](#)

Anti-Claudin 4 Monoclonal Antibody - Images



Western blot analysis of Claudin 4 expression in MCF7 cell lysate.

Anti-Claudin 4 Monoclonal Antibody - Background

Plays a major role in tight junction-specific obliteration of the intercellular space.