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

Anti-Claudin 4 Monoclonal Antibody

Catalog # ABO14539

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.

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
Calculated MW	22077
Application Details	WB 1:500-1:1000 IHC 1:100-1:500 IP 1:20
Source	Eukaryota
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.
Clone Names	Clone: ADEB-3
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.

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

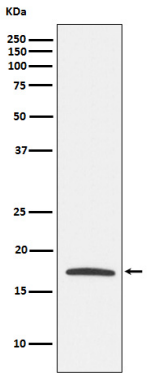
channels that convey paracellular chloride permeability in renal collecting ducts (By similarity) (PubMed:36008380). May integrate into CLDN3 strands to modulate localized tight junction barrier properties (PubMed:35773259, PubMed:36008380). May disrupt strand assembly of channel-forming CLDN2 and CLDN15 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.

Images



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

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