Datasheet for ABIN2778049

anti-Claudin 16 antibody (C-Term)

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Overview

Quantity:	100 µL
Target:	Claudin 16 (CLDN16)
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Pig, Rat, Cow, Dog, Rabbit, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Claudin 16 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human CLDN16
Sequence:	FLAGAVLTCC LYLFKDVGPE RNYPYSLRKA YSAAGVSMAK SYSAPRTETA
Predicted Reactivity:	Cow: 86%, Dog: 86%, Horse: 93%, Human: 100%, Mouse: 86%, Pig: 86%, Rabbit: 93%, Rat: 86%
Characteristics:	This is a rabbit polyclonal antibody against CLDN16. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	Claudin 16 (CLDN16)

Target Details

Alternative Name:	CLDN16 (CLDN16 Products)
Background:	Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. Claudin-16, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. It is found primarily in the kidneys, specifically in the thick ascending limb of Henle, where it acts as either an intercellular pore or ion concentration sensor to regulate the paracellular resorption of magnesium ions. Defects in the corresponding gene are a cause of primary hypomagnesemia, which is characterized by massive renal magnesium wasting with hypomagnesemia and hypercalciuria, resulting in nephrocalcinosis and renal failure.Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. These junctions are comprised of sets of continuous networking strands in the outwardly facing cytoplasmic leaflet, with complementary grooves in the inwardly facing extracytoplasmic leaflet. The protein encoded by this gene, a member of the claudin family, is an integral membrane protein and a component of tight junction strands. It is found primarily in the kidneys, specifically in the thick ascending limb of Henle, where it acts as either an intercellular pore or ion concentration sensor to regulate the paracellular resorption of magnesium ions. Defects in this gene are a cause of primary hypomagnesemia, which is characterized by massive renal magnesium wasting with hypomagnesemia and hypercalciuria, resulting in nephrocalcinosis and renal failure. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: HOMG3, PCLN1 Protein Interaction Partner: APP, TJP1, Protein Size: 305
Molecular Weight:	34 kDa
Gene ID:	10686
NCBI Accession:	NM_006580, NP_006571
UniProt:	Q9Y5I7
Pathways:	Hepatitis C

Application Details

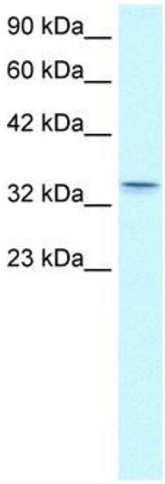
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 305 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Peng, Rao, Adelman, Rizzolo: "Claudin-19 and the barrier properties of the human retinal pigment epithelium." in: **Investigative ophthalmology & visual science**, Vol. 52, Issue 3, pp. 1392-403, (2011) (PubMed). Wang, Zhang, Maminishkis, Dong, Zhi, Li, Zhao, Majerciak, Gaur, Chen, Miller: "MicroRNA-204/211 alters epithelial physiology." in: **FASEB journal : official publication of the Federation of American Societies for Experimental Biology**, Vol. 24, Issue 5, pp. 1552-71, (2010) (PubMed).



Western Blotting

Image 1. WB Suggested Anti-CLDN16 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Human kidney

