Datasheet for ABIN2778047

anti-Claudin 5 antibody (C-Term)

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Overview

Quantity:	100 µL
Target:	Claudin 5 (CLDN5)
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse, Pig, Cow, Rabbit, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Claudin 5 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 CLDN5
Sequence:	GWAATALLMV GGCLLCCGAW VCTGRPDLSF PVKYSAPRRP TATGDYDKKN
Isotype:	IgG
Predicted Reactivity:	Cow: 93%, Guinea Pig: 86%, Human: 100%, Mouse: 93%, Pig: 100%, Rabbit: 93%, Rat: 93%
Characteristics:	This is a rabbit polyclonal antibody against CLDN5. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	Claudin 5 (CLDN5)

Target Details

Alternative Name:	CLDN5 (CLDN5 Products)
Background:	CLDN5 is a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets. Mutations in this gene have been found in patients with velocardiofacial syndrome.This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets. Mutations in this gene have been found in patients with velocardiofacial syndrome. 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: AWAL, BEC1, CPETRL1, TMVCF Protein Interaction Partner: UBC, MPDZ, CLDN3, CLDN5, TJP1, CLDN1, Protein Size: 218
Molecular Weight:	23 kDa
Gene ID:	7122
NCBI Accession:	NM_003277, NP_003268
UniProt:	O00501
Pathways:	Hepatitis C

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 218 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.

Handling

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.

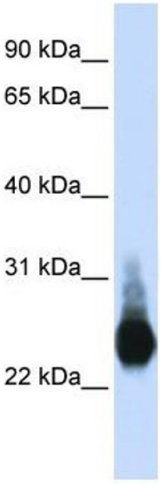
Publications

Product cited in:

Yang, Liu, Miao, Yang, Fu, Dou, Cai, Zong, Tan, Chen, Wang: "Induction of VEGFA and Snail-1 by meningitic Escherichia coli mediates disruption of the blood-brain barrier." in: **Oncotarget**, Vol. 7 , Issue 39, pp. 63839-63855, (2016) (PubMed).

Fontijn, Volger, Fledderus, Reijerkerk, de Vries, Horrevoets: "SOX-18 controls endothelial-specific claudin-5 gene expression and barrier function." in: **American journal of physiology. Heart and circulatory physiology**, Vol. 294, Issue 2, pp. H891-900, (2008) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-CLDN5 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: Transfected 293T