

Anti-Claudin 5 Antibody

Catalog # ABO12728

Product Information

Application	WB
Primary Accession	O00501
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Claudin-5(CLDN5) detection. Tested with WB in Human;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	7122
Other Names	Claudin-5, Transmembrane protein deleted in VCFS, TMDVCF, CLDN5, AWAL, TMVCF
Calculated MW	23147
Application Details	Western blot, 0.1-0.5 µg/ml, Rat, Human
Subcellular Localization	Cell junction, tight junction. Cell membrane; Multi-pass membrane protein.
Source	Eukaryota
Protein Name	Claudin-5
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Claudin 5(191-218aa RPDLSFPVKYSAPRRPTATGDYDKKNYV), different from the related mouse sequence by three amino acids and from the related rat sequence by four amino acids.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Protein Information

Name	CLDN5
Synonyms	AWAL, TMVCF
Function	Plays a major role in tight junction-specific obliteration of the intercellular space.
Cellular Location	Cell junction, tight junction. Cell membrane {ECO:0000250 UniProtKB:O54942}; Multi-pass membrane protein

Background

Claudin-5 (CLDN5) also known as BEC1, is a protein that in humans is encoded by the CLDN5 gene. By use of yeast artificial chromosomes, Claudin-5 is localized between polymorphic markers D22S944 and D22S941 on chromosome 22q11, both of which are deleted in more than 80% of VCFS patients. 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. What's more, it plays a major role in tight junction-specific obliteration of the intercellular space.

Images



Anti- Claudin 5 Picoband antibody, ABO12728, Western blotting
All lanes: Anti Claudin-5 (ABO12728) at 0.5ug/ml
WB: Rat Liver Tissue Lysate at 50ug
Predicted bind size: 23KD
Observed bind size: 23KD

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