

Claudin 5 Rabbit mAb

Catalog No: #49471



Package Size: #49471-1 50ul #49471-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

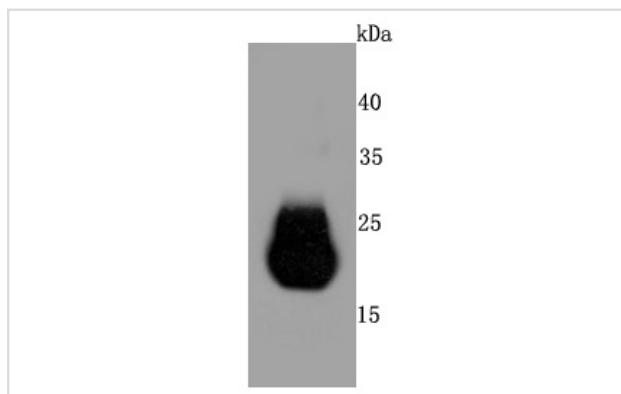
Description

Product Name	Claudin 5 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JM11-22
Purification	ProA affinity purified
Applications	WB, IHC
Species Reactivity	Human
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Androgen withdrawal and apoptosis induced protein RVP1 like antibody AWAL antibody BEC 1 antibody BEC1 antibody Claudin 5 (transmembrane protein deleted in velocardiofacial syndrome) antibody Claudin-5 antibody Claudin5 antibody CLD5_HUMAN antibody CLDN 5 antibody Cldn5 antibody CPETR L1 antibody CPETRL 1 antibody CPETRL1 antibody TMDVCF antibody TMVCF antibody Transmembrane protein deleted in VCFS antibody Transmembrane protein deleted in velocardiofacial syndrome antibody
Accession No.	Swiss-Prot#:O00501
Calculated MW	24 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

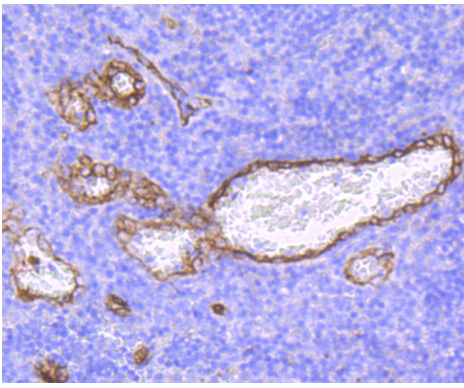
Application Details

WB: 1:2,000-1:5,000 IHC: 1:50-1:200

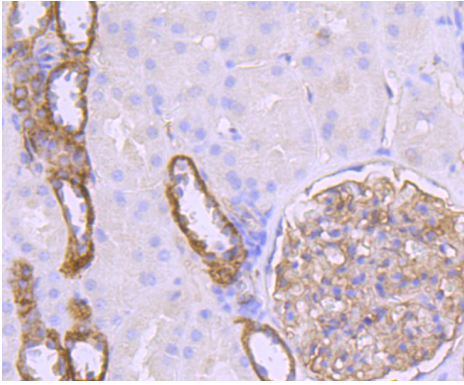
Images



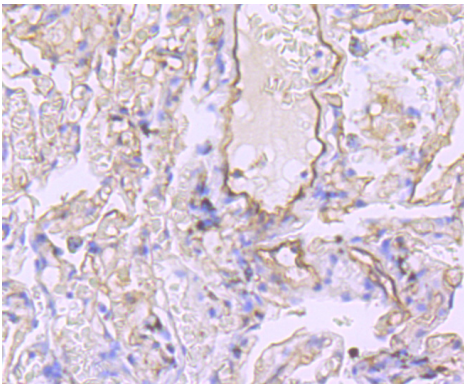
Western blot analysis of Claudin 5 on human lung cells lysates using anti-Claudin 5 antibody at 1/500 dilution.



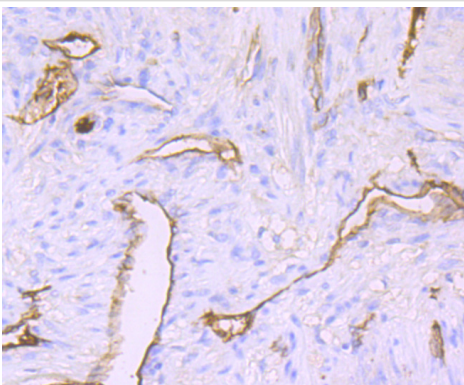
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Claudin 5 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Claudin 5 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human lung tissue using anti-Claudin 5 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human uterus tissue using anti-Claudin 5 antibody. Counter stained with hematoxylin.

Background

The claudin superfamily consists of many structurally related proteins in humans. These proteins are important structural and functional components of tight junctions in paracellular transport. Claudins are located in both epithelial and endothelial cells in all tight junction-bearing tissues. Three classes of proteins are known to localize to tight junctions, including the claudins, Occludin and Junction adhesion molecule. Claudins, which consist of four transmembrane domains and two extracellular loops make up tight junction strands. Claudin expression is highly restricted to specific regions of different tissues and may have an important role in transcellular transport through tight junctions. Claudin-5 is expressed in the endothelial junctions of the rat liver and in junctions of acinar cells of the pancreas. Human Claudin-5 is abundantly expressed in adult lung, heart and skeletal muscle and is deleted in patients with velocardiofacial syndrome, which is characterized by cleft palate, facial dysmorphology and conotruncal heart defects.

References

1. Macrez R et al. Neuroendothelial NMDA receptors as therapeutic targets in experimental autoimmune encephalomyelitis. *Brain* 139:2406-19 (2016).
2. Kuan WL et al. a-Synuclein pre-formed fibrils impair tight junction protein expression without affecting cerebral endothelial cell function. *Exp Neurol* 285:72-81 (2016).

Published Papers

el at., Essential oil of *Ligusticum chuanxiong* Hort. Regulated P-gp protein and tight junction protein to change pharmacokinetic parameters of temozolomide in blood, brain and tumor. In *J Ethnopharmacol* on 2022 Nov 15 by Shu-Yuan Shuai, Shan-Shan Liu, et al.. PMID:36031103, (2022)
[PMID:36031103](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.