

Claudin 5 Antibody (R30145)

Catalog No.	Formulation	Size
R30145	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

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Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
Gene ID	7122
Applications	Western Blot : 0.5-1ug/ml
Limitations	This Claudin 5 antibody is available for research use only.



Western blot testing of Claudin-5 antibody and rat liver. Predicted molecular weight ~23 kDa.

Description

Claudin-5, 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. Family members 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. Additionally, it plays a major role in tight junction-specific obliteration of the intercellular space.

Application Notes

The stated application concentrations are suggested starting points. Titration of the Claudin 5 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 191-218 (RPDLSFPVKYSAPRRPTATGDYDKKNYV-human) were used as the immunogen for the Claudin-5 antibody.

Storage

After reconstitution, the Claudin 5 antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.