

## Anti-Claudin 5/CLDN5 Antibody Picoband®

Catalog Number: RP1043

### About CLDN5

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.

### Overview

Product Name	Anti-Claudin 5/CLDN5 Antibody Picoband®
Reactive Species	Human, Rat
Description	Boster Bio Anti-Claudin 5/CLDN5 Antibody catalog # RP1043. Tested in WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	O00501

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Claudin 5, different from the related mouse sequence by three amino acids and from the related rat sequence by four amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized

Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Rat, Human

## Anti-Claudin 5/CLDN5 Antibody Picoband® (RP1043) Images



Anti-Claudin 5 Picoband antibody, RP1043, Western blotting  
All lanes: Anti Claudin-5 (RP1043) at 0.5ug/mlWB:  
Rat Liver Tissue Lysate at 50ug  
Predicted bind size: 23KD  
Observed bind size: 23KD

### 1 Publications Citing This Product

1. PubMed ID: 23600383, Cen J, Liu L, Li Ms, He L, Wang Lj, Liu Yq, Liu M, Ji Bs. J Pharm Pharmacol. 2013 May;65(5):665-72. Doi: 10.1111/Jphp.12033. Epub 2013 Feb 26. Alteration In P-Glycoprotein At The Blood-Brain Barrier In The Early Period Of Mcao In Rats.

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