BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Claudin 2/CLDN2 Antibody Picoband®

Catalog Number: RP1042

About CLDN2

Claudin-2 is a protein that in humans is encoded by the CLDN2 gene. By genomic sequence analysis, this gene is mapped to chromosome Xq22.3-q23. This gene product belongs to the claudin protein family whose members have been identified as major integral membrane proteins localized exclusively at tight junctions. Claudins are expressed in an organ-specific manner and regulate tissue-specific physiologic properties of tight junctions. By expression in a human intestinal epithelial cell line, it was determined that the intestine-specific homeodomain proteins CDX1 and CDX2 activated a reporter plasmid driven by the CLDN2 promoter.

Submit a product review to Biocompare.com





Submit a review of this product to Biocompare.com to receive a $20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.

Overview

Product Name	Anti-Claudin 2/CLDN2 Antibody Picoband®
Reactive Species	Human, Rat
Description	Boster Bio Anti-Claudin 2/CLDN2 Antibody catalog # RP1042. Tested in IHC, 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	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na2HPO4, and 0.05 mg NaN3. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
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	P57739

Technical Details

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

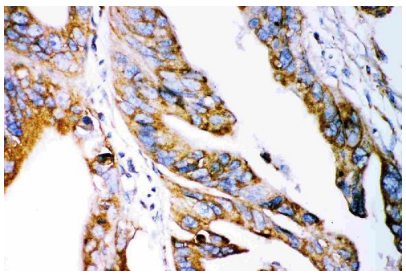
Immunogen	E.coli-derived human Claudin 2 recombinant protein (Position: A38-V230). Human Claudin 2 shares 92% amino acid (aa) sequence identity with mouse Claudin 2.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human Western blot, 0.1-0.5ug/ml, Rat, Human

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

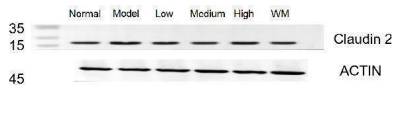
Anti-Claudin 2/CLDN2 Antibody Picoband® (RP1042) Images



Anti-Claudin 2 antibody, RP1042, Western blottingAll lanes: Anti Claudin 2 (RP1042) at 0.5ug/mlLane 1: Rat Kidney Tissue Lysate at 50ugLane 2: Rat Liver Tissue Lysate at 50ugPredicted bind size: 25KDObserved bind size: 25KD



Anti-Claudin 2 antibody, RP1042, IHC(P)IHC(P): Human Intestinal Cancer Tissue



Western blot analysis of Claudin 2 using anti-Claudin 2 antibody (RP1042). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: Normal group-rat colon tissue lysates, Lane 2: Model group-rat colon tissue lysates, Lane 3: Triditional Chinese medicine treatment (low dose)-rat colon tissue lysates, Lane 4: Triditional Chinese medicine treatment (medium dose)-rat colon tissue lysates, Lane 5: Triditional Chinese medicine treatment(high dose)-rat colon tissue lysates, Lane 6: Western medicine treatment-rat colon tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Claudin 2 antigen affinity purified polyclonal antibody (Catalog # RP1042) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with ChemiDoc MP system. A specific band was detected for Claudin 2 at approximately 20 kDa. The expected band size for Claudin 2 is at 25 kDa.

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.

Visit bosterbio.com/anti-claudin-2-antibody-rp1042-boster.html to see all 1 publications.

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Claudin 2/CLDN2 Antibody

For Research Use Only. Not for use in diagnostic procedures.