BOSTER BIOLOGICAL TECHNOLOGY
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Anti-N-Cadherin-2 CDH2 CD325-Antibody Picoband®

Catalog Number: A01577-2

About CDH2

N-cadherin (NCAD) is a member of the cadherin cell-cell adhesion receptor family that includes P-, E-, and R-cadherin and liver cell adhesion molecule (L-CAM). N-Cadherin,, also known as Cadherin-2, encodes a 907-amino acid protein that includes a 159-amino acid signal sequence. Human and mouse nucleotide sequences are 96% identical. Mouse Ncad gene consists of 16 exons dispersed over more than 200 kb of genomic DNA. Human N-cadherin gene contains 16 exons and its sequence is highly similar to both the mouse NCAD gene (including the large first and second introns) and other cadherin genes. N-cadherin is mapped to 18q11.2. Cadherin regulates dendritic spine morphogenesis.

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Overview

Product Name	Anti-N-Cadherin-2 CDH2 CD325-Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-N-Cadherin-2 CDH2 CD325-Antibody Picoband® catalog # A01577-2. Tested in WB applications. This antibody reacts with Human. 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, 0.01mg 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	P19022

Technical Details

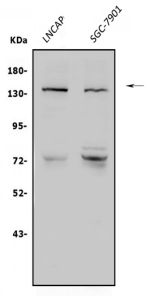
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Cadherin/CDH2, which shares 95% and 100% amino acid (aa) sequence identity with mouse and rat Cadherin/CDH2, respectively.

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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, 0.25-0.5ug/ml, Human Tested Species: In-house tested species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

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Anti-N-Cadherin-2 CDH2 CD325-Antibody Picoband® (A01577-2) Images



Western blot analysis of CDH2 using anti-CDH2 antibody (A01577-2). 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 30ug of sample under reducing conditions. Lane 1: human LNCAP whole cell lysates, Lane 2: human SGC-7901 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-CDH2 antigen affinity purified polyclonal antibody (Catalog # A01577-2) at 0.5 ug/mL 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 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for CDH2 at approximately 140KD. The expected band size for CDH2 is at 100KD.

3 Publications Citing This Product

1. PubMed ID: 32519176, Piao HY,Guo S,Wang Y,Zhang J.Exosome-transmitted lncRNA PCGEM1 promotes invasive and metastasis in gastric cancer by maintaining the stability of SNAI1.Clin Transl Oncol.2020 Jun 9.doi:10.1007/s12094-020-02412-9.Epub ahead of print.PMID:32519176.

2. PubMed ID: 32319604, Jia X, Wang H,Li Z,Yan J,Guo Y,Zhao W,Gao L,Wang B,Jia Y.HER4 promotes the progression of colorectal cancer by promoting epithelial-mesenchymal transition.Mol Med Rep.2020 Apr;21(4):1779-1788.doi:10. 3892/mmr.2020.10974.Epub 2020 Feb 4.PMID:32319604;PMCID

3. PubMed ID: 32158357, Yang Z,Zhang J,Lu D,Sun Y, Zhao X,Wang X,Zhou W,He Q,Jiang Z.Hsa_circ_0137008 suppresses the malignant phenotype in colorectal cancer by acting as a microRNA-338-5p sponge. Cancer Cell Int.2020 Mar 4;20:67. doi:10.1186/s1293 5-020-1150-1.PMID:32158357;PMC

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