Anti-CaV1.3/CACNA1D Antibody

Catalog Number: PA2293

About CACNA1D

Cav1.3, also known as the calcium channel, voltage-dependent, L type, alpha 1D subunit (CACNA1D), is a human gene. It is mapped to 3p21.1. Voltage-dependent calcium channels mediate the entry of calcium ions into excitable cells, and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, and gene expression. Alpha-1D subunit can mediate DHP-sensitive, high voltage-activated, long-lasting calcium channel activity. CACNA1D can form L-type calcium channels with negative activation thresholds which is essential for normal auditory function and controling of cardiac pacemaker activity.

Overview

Product Name	Anti-CaV1.3/CACNA1D Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CaV1.3/CACNA1D Antibody catalog # PA2293. Tested in WB applications. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 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	Q01668

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human CaV1.3, different from the related mouse and rat sequences by one amino acid.
Predicted Reactive Species	Hamster
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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western blot, 0.1-0.5ug/ml, Rat, Human, Mouse

Anti-CaV1.3/CACNA1D Antibody (PA2293) Images
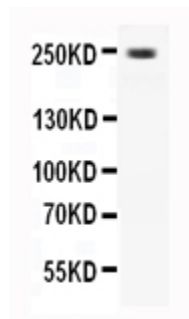
Anti-CaV1.3 antibody, PA2293, All Western blotting
All lanes: Anti-CACNA1D(PA2293) at 0.5ug/ml
Lane 1: Rat Brain Tissue Lysate at 40ug
Predicted bind size: 245KD
Observed bind size: 245KD

1 Publications Citing This Product

1. PubMed ID: 28656274, Guo, Y., Cui, L., Jiang, S., Zhang, A., & Jiang, S. (2017). Proteomics of acute heart failure in a rat post-myocardial infarction model. Molecular Medicine Reports, 16(2), 1946-1956. Advance online publication. doi: 10.3892/mmr.2017.6820

Visit bosterbio.com/anti-cav1-3-antibody-pa2293-boster.html to see all 1 publications.

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.

Anti-CaV1.3/CACNA1D Antibody