

## Anti-CaV1.3/CACNA1D Antibody Picoband®

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 controlling of cardiac pacemaker activity.

### Overview

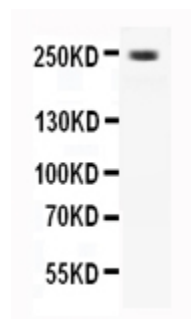
Product Name	Anti-CaV1.3/CACNA1D Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CaV1.3/CACNA1D Antibody catalog # PA2293. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees 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 antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *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	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.
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, Mouse

## Anti-CaV1.3/CACNA1D Antibody Picoband® (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

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