BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
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Anti-CACNA1H Antibody

Catalog Number: A01406-1

About CACNA1H

The calcium channel protein CACNA1H is a T-type member of the alpha-1 subunit family that is part of the voltage-dependent calcium channel complex which mediates the influx of calcium ions into the cell upon membrane polarization (1,2). CACNA1H is a subunit of Cav3.2 T-type calcium channel that is involved in neurological disorders such as epilepsy and pain (2,3). CACNA1H associates with the caveolin protein Cav-3 and it is thought that Cav-3 regulates the Protein Kinase A (PKA) modulation of CACNA1H-containing Cav3.2 T-type calcium channels (4).

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Overview

Product Name	Anti-CACNA1H Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-CACNA1H Antibody (Catalog # A01406-1). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	CACNA1H antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	CACNA1H antibody can be stored at 4°C, stable for up to one year.
Host	Rabbit
Uniprot ID	O95180

Technical Details

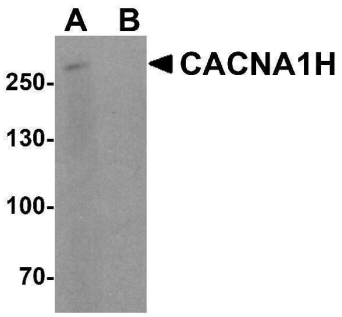
Immunogen	CACNA1H antibody was raised against a 16 amino acid peptide near the center of human CACNA1H. The immunogen is located within amino acids 1010 - 1060 of CACNA1H.
Predicted Reactive Species	Bovine, Guinea Pig, Pig
Cross Reactivity	CACNA1H antibody is human, mouse and rat reactive. Multiple isoforms of CACNA1H are known to exist.

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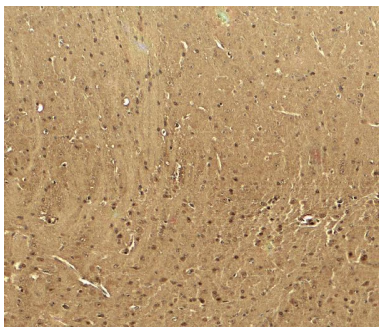
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	CACNA1H antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	CACNA1H antibody can be used for detection of CACNA1H by Western blot at 1 - 2 ug/ml. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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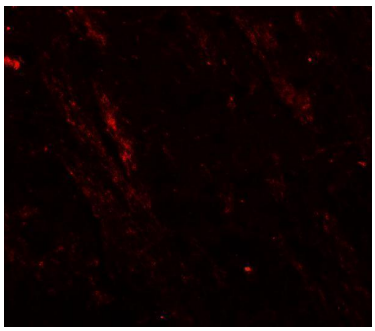
Anti-CACNA1H Antibody (A01406-1) Images



Western blot analysis of CACNA1H in 293 cell lysate with CACNA1H antibody at 1 ug/ml in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of CACNA1H in mouse brain tissue with CACNA1H antibody at 5 ug/ml.



Immunofluorescence of CACNA1H in mouse brain tissue with CACNA1H antibody at 20 ug/ml.

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