

## 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).

### 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 0.02% sodium azide.
Storage Instructions	CACNA1H antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Host	Rabbit
Uniprot ID	O95180

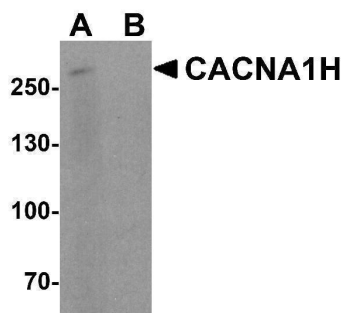
### Technical Details

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.
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.

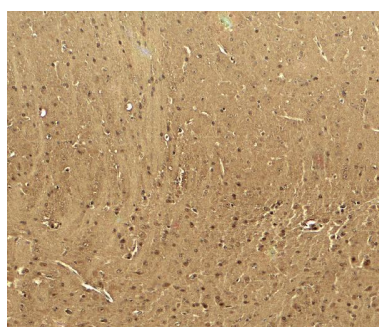
Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL.

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.

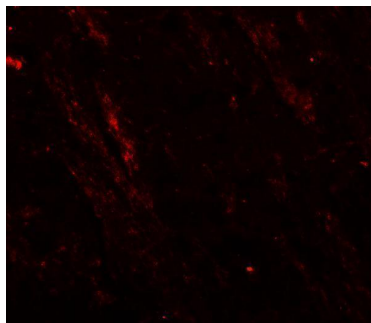
## Anti-CACNA1H Antibody (A01406-1) Images



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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Anti-CACNA1H Antibody

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