

CACNA1H Rabbit pAb

Catalog No.: A25219

Basic Information

Observed MW

Refer to figures

Calculated MW

259kDa

Category

Primary antibody

Applications

IF-P, ELISA

Cross-Reactivity

Rat

Background

This gene encodes a T-type member of the alpha-1 subunit family, a protein in the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. The alpha-1 subunit has 24 transmembrane segments and forms the pore through which ions pass into the cell. There are multiple isoforms of each of the proteins in the complex, either encoded by different genes or the result of alternative splicing of transcripts. Alternate transcriptional splice variants, encoding different isoforms, have been characterized for the gene described here. Studies suggest certain mutations in this gene lead to childhood absence epilepsy (CAE).

Recommended Dilutions

IF-P 1:50 - 1:200**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

8912

Swiss Prot

O95180

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

ECA6; EIG6; HALD4; Cav3.2; CACNA1HB; CACNA1H

Contact

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Product Information

Source

Rabbit

Isotype

IgG

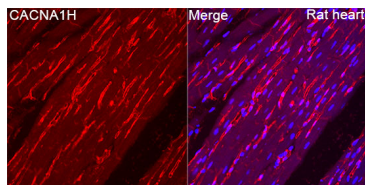
Purification

Affinity purification

Storage

Store at -20°C

Validation Data



Immunofluorescence analysis of paraffin-embedded Rat heart tissue using CACNA1H Rabbit pAb (A25219) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.