

# CACNA1H Rabbit pAb

Catalog No.: A25219

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

259kDa

### Category

Primary antibody

### Applications

ELISA,IF/ICC

### 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/ICC 1:50 - 1:200

## Immunogen Information

### Gene ID

8912

### Swiss Prot

O95180

### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 2250-2353 of human CACNA1H (NP\_066921.2).

### Synonyms

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

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

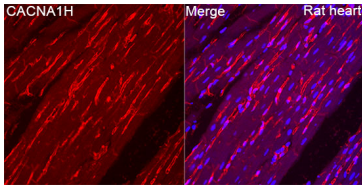
### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

## Validation Data

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Immunofluorescence analysis of paraffin-embedded Rat heart tissue using CACNA1H Rabbit pAb (A25219) at a dilution of 1:100 (40x lens). Secondary antibody: Cy3 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.