



Anti-CACNG2 monoclonal antibody (DCABH-10810)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Antigen Description | L-type calcium channels are composed of five subunits. The protein encoded by this gene represents one of these subunits, gamma, and is one of several gamma subunit proteins. It is an integral membrane protein that is thought to stabilize the calcium channel in an inactive (closed) state. This protein is similar to the mouse stargazin protein, mutations in which have been associated with absence seizures, also known as petit-mal or spike-wave seizures. This gene is a member of the neuronal calcium channel gamma subunit gene subfamily of the PMP-22/EMP/MP20 family. |
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| Immunogen | A synthetic peptide of human CACNG2 is used for rabbit immunization. |
| Isotype | IgG |
| Source/Host | Rabbit |
| Species Reactivity | Human |
| Purification | Protein A |
| Conjugate | Unconjugated |
| Applications | Western Blot (Transfected lysate); ELISA |
| Buffer | In 1x PBS, pH 7.4 |
| Preservative | None |
| Storage | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

GENE INFORMATION

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| Gene Name | CACNG2 calcium channel, voltage-dependent, gamma subunit 2 [Homo sapiens] |
| Official Symbol | CACNG2 |
| Synonyms | CACNG2; calcium channel, voltage-dependent, gamma subunit 2; voltage-dependent calcium channel gamma-2 subunit; MGC138502; MGC138504; stargazin; TARP gamma-2; transmembrane AMPAR regulatory protein gamma-2; neuronal voltage-gated calcium channel gamma-2 subunit; MRD10; FLJ41437; |
| Entrez Gene ID | 10369 |
| Protein Refseq | NP_006069 |
| UniProt ID | Q9Y698 |
| Chromosome Location | 22q13.1 |
| Pathway | Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Depolarization of the Presynaptic Terminal Triggers the Opening of Calcium Channels, organism-specific biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; |
| Function | protein binding; voltage-gated calcium channel activity; voltage-gated ion channel activity; |