



Anti-CACNG7 monoclonal antibody (DCABH-10814)

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

PRODUCT INFORMATION

Antigen Description	The mouse protein stargazin is one of five subunits comprising neuronal voltage-gated calcium channels. This subunit, gamma, is thought to stabilize the calcium channel in an inactive (closed) state. Mutations in the gene encoding stargazin have been associated with absence seizures, also known as petit-mal or spike-wave seizures. The protein encoded by this gene is structurally similar to the mouse stargazin protein and is a member of the neuronal calcium channel gamma subunit protein family. However, it appears unlikely that the encoded protein is part of a functional calcium channel. Rather, it appears to inhibit the expression of a specific calcium channel subunit.
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Immunogen	A synthetic peptide of human CACNG7 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

Gene Name	CACNG7 calcium channel, voltage-dependent, gamma subunit 7 [Homo sapiens]
Official Symbol	CACNG7
Synonyms	CACNG7; calcium channel, voltage-dependent, gamma subunit 7; voltage-dependent calcium channel gamma-7 subunit; TARP gamma-7; transmembrane AMPAR regulatory protein gamma-7; neuronal voltage-gated calcium channel gamma-7 subunit;
Entrez Gene ID	59284
Protein Refseq	NP_114102
UniProt ID	P62955
Chromosome Location	19q13.4
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; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem;
Function	voltage-gated calcium channel activity; voltage-gated ion channel activity;