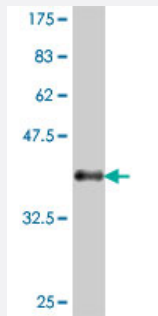


CACNA1F polyclonal antibody (A01)

Catalog # H00000778-A01

Size 50 uL

Applications



Western Blot detection against Immunogen (37.11 kDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant CACNA1F.
Immunogen	CACNA1F (NP_005174, 1878 a.a. ~ 1977 a.a) partial recombinant protein with GST tag.
Sequence	LHVPGTHSDPSHKGKRGSAADSLVEAVLISEGLGLFARDPRFVALAKQEIADACRLTDEMDNAAS DLLAQGTSSLYSDEESILSRFDEEDLGDEMACVHAL
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (90)
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.11 kDa) .
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — CACNA1F

Entrez GeneID [778](#)

GeneBank Accession# [NM_005183](#)

Protein Accession# [NP_005174](#)

Gene Name CACNA1F

Gene Alias AIED, COD3, CORDX, CORDX3, CSNB2, CSNB2A, CSNBX2, Cav1.4, JM8, JMC8, OA2

Gene Description calcium channel, voltage-dependent, L type, alpha 1F subunit

Omim ID [300071](#) [300110](#) [300476](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a 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 of the gene described here have been observed but have not been thoroughly characterized. Mutations in this gene have been shown to cause incomplete X-linked congenital stationary night blindness type 2 (CSNB2). [provided by RefSeq]

Other Designations Cav1.4alpha1

Publication Reference

- [Spontaneous and nicotine-induced Ca²⁺ oscillations mediated by Ca²⁺ influx in rat pinealocytes.](#)

Mizutani H, Yamamura H, Muramatsu M, Kiyota K, Nishimura K, Suzuki Y, Ohya S, Imaizumi Y.

American Journal of Physiology. Cell Physiology 2014 Jun; 306(11):C1008.

Application: ICC, Rat, Pinealocytes

Pathway

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [Calcium signaling pathway](#)
- [Cardiac muscle contraction](#)
- [GnRH signaling pathway](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [MAPK signaling pathway](#)
- [Vascular smooth muscle contraction](#)

Disease

- [Retinal Diseases](#)
- [Rhinitis](#)