CACNA1G polyclonal antibody

Catalog # PAB17257 Size 100 ug

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of CACNA1G.
Immunogen	A synthetic peptide corresponding to amino acids at internal region of human CACNA1G.
Sequence	C-AEEISKREDASGQLS
Host	Goat
Theoretical MW (kDa)	262, 260, 259
Specificity	This antibody is expected to recognize isoform 1 (NP_061496.2), 4 (NP_938199.1), 5 (NP_938194.1), 8 (NP_938198.1), 9 (NP_938192.1), 10 (NP_938200.1) and isoform 15 (NP_938407.1).
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:32000) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay

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Gene Info — CACNA1G

Entrez GeneID	8913
Protein Accession#	NP_061496.2;NP_938192.1;NP_938194.1;NP_938198.1;NP_938199.1;NP_938200.1;NP_938407.1
Gene Name	CACNA1G
Gene Alias	Ca(V)T.1, Cav3.1, MGC117234, NBR13
Gene Description	calcium channel, voltage-dependent, T type, alpha 1G subunit
Omim ID	604065
Gene Ontology	Hyperlink
Gene Summary	Voltage-activated calcium channels can be distinguished based on their voltage-dependence, de activation, and single-channel conductance. See MIM 601011. Low-voltage-activated calcium cha nnels are referred to as 'T' type because their currents are both transient, owing to fast inactivation , and tiny, owing to small conductance. T-type channels are thought to be involved in pacemaker a ctivity, low-threshold calcium spikes, neuronal oscillations and resonance, and rebound burst firing .[supplied by OMIM
Other Designations	calcium channel, voltage-dependent, T type, alpha-1G subunit|calcium channel, voltage-dependen t, alpha 1G subunit|voltage-dependent calcium channel alpha 1G subunit|voltage-dependent calciu m channel alpha 1G subunit, isoform 11

Publication Reference

- Genetic enhancement of thalamocortical network activity by elevating alpha 1g-mediated low-voltage-activated calcium current induces pure absence epilepsy.

  Ernst WL, Zhang Y, Yoo JW, Ernst SJ, Noebels JL.

  The Journal of Neuroscience 2009 Feb; 29(6):1615.

Pathway

- Calcium signaling pathway
- MAPK signaling pathway
- Type II diabetes mellitus

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Disease

- Autistic Disorder
- Diabetes Mellitus
- Epilepsy
- Genetic Predisposition to Disease

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