ARG67313
anti-CACNA1C antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CACNA1C
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CACNA1C
Species	Human
Immunogen	KLH-conjugated synthetic peptide within the center region of Human CACNA1C.
Conjugation	Un-conjugated
Alternate Names	Calcium Voltage-Gated Channel Subunit Alpha1 C; CACNA1C; Cav1.2; CACH2; CACN2; CACNL1A1; CCHL1A1; Voltage-dependent L-type calcium channel subunit alpha-1C; Calcium channel, L type, alpha-1 polypeptide, isoform 1, cardiac muscle; Voltage-gated calcium channel subunit alpha Cav1.2

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50-1:200
WB	1:500-1:1000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Observed Size	190 kDa

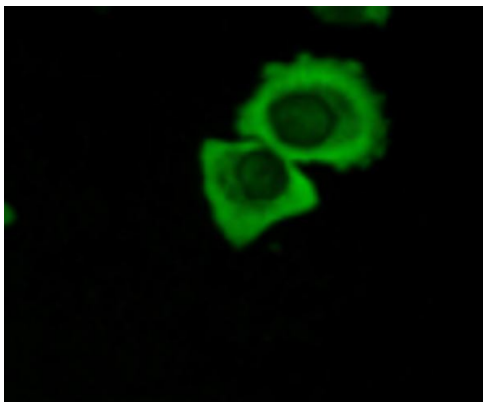
Properties

Form	Liquid
Purification	Affinity purification with immunogen
Buffer	0.42% Potassium phosphate (pH 7.3), 0.87% NaCl, 0.01% Sodium azide and 30% Glycerol.
Preservative	0.01% Sodium azide
Stabilizer	30% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

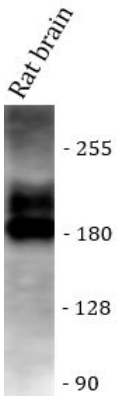
Gene Symbol	CACNA1C
Gene Full Name	Calcium Voltage-Gated Channel Subunit Alpha1 C
Background	This gene encodes an alpha-1 subunit of a voltage-dependent calcium channel. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization. The alpha-1 subunit consists of 24 transmembrane segments and forms the pore through which ions pass into the cell. The calcium channel consists of a complex of alpha-1, alpha-2/delta, beta, and gamma subunits in a 1:1:1:1 ratio. There are multiple isoforms of each of these proteins, either encoded by different genes or the result of alternative splicing of transcripts. The protein encoded by this gene binds to and is inhibited by dihydropyridine. Alternative splicing results in many transcript variants encoding different proteins. Some of the predicted proteins may not produce functional ion channel subunits. [provided by RefSeq, Oct 2012]
Function	Pore-forming, alpha-1C subunit of the voltage-gated calcium channel that gives rise to L-type calcium currents. Mediates influx of calcium ions into the cytoplasm, and thereby triggers calcium release from the sarcoplasm (By similarity). [UniProt]
Calculated Mw	249 kDa
PTM	Disulfide bond; Glycoprotein; Phosphoprotein. [UniProt]
Cellular Localization	Cell membrane; Cell projection; Membrane; Postsynaptic cell membrane; Synapse. [UniProt]

Images



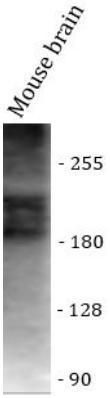
ARG67313 anti-CACNA1C antibody ICC/IF image

Immunofluorescence: MCF7 stained with ARG67313 anti-CACNA1C antibody.



ARG67313 anti-CACNA1C antibody WB image

Western blot: Rat brain stained with ARG67313 anti-CACNA1C antibody.



ARG67313 anti-CACNA1C antibody WB image

Western blot: Mouse brain stained with ARG67313 anti-CACNA1C antibody.