ARG24119
anti-CACNA1H antibody [N55/10]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [N55/10] recognizes CACNA1H
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-Fr, IHC-P, IP, WB
Specificity	No cross-reactivity against Cav1.3.
Host	Mouse
Clonality	Monoclonal
Clone	N55/10
Isotype	IgG1
Target Name	CACNA1H
Species	Human
Immunogen	Human fusion protein of CACNA1H
Conjugation	Un-conjugated
Alternate Names	CACNA1H; Calcium Voltage-Gated Channel Subunit Alpha1 H; Calcium Channel, Voltage-Dependent, T Type, Alpha 1H Subunit; Voltage-Dependent T-Type Calcium Channel Subunit Alpha-1H; Low-Voltage-Activated Calcium Channel Alpha1 3.2 Subunit; Voltage-Gated Calcium Channel Subunit Alpha Cav3.2; Cav3.2; Calcium Channel, Voltage-Dependent, T Type, Alpha 1Hb Subunit; Voltage Dependent T-Type Calcium Channel Alpha-1H Subunit; Low-Voltage-Activated Calcium Channel Alpha13.2 Subunit; Voltage-Gated Calcium Channel Alpha Subunit Cav3.2; Voltage-Gated Calcium Channel Alpha Subunit CavT.2; CACNA1HB; CAV3.2; HALD4; ECA6; EIG6

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100
IHC-Fr	1:1000
IHC-P	1:1000
IP	Assay-dependent
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

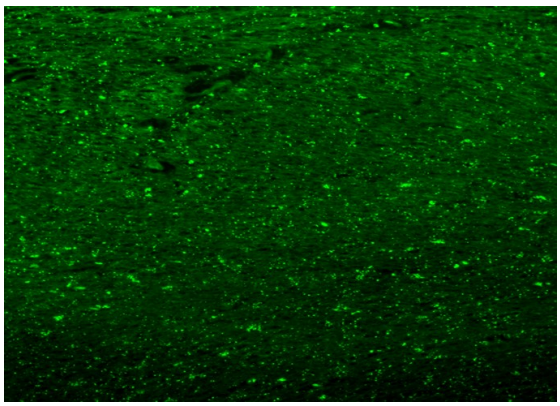
Form	Liquid
Purification	Purification with Protein G.

Buffer	PBS (pH 7.4), 50% Glycerol and 0.09% Sodium azide
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
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. 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

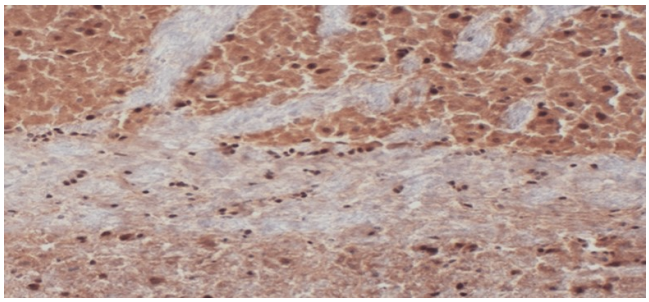
Gene Full Name	Calcium Voltage-Gated Channel Subunit Alpha1 H
Background	This gene encodes a T-type member of the alpha-1 subunit family, a protein in the voltage-dependent calcium channel complex. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization and consist 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, encoding different isoforms, have been characterized for the gene described here. Studies suggest certain mutations in this gene lead to childhood absence epilepsy (CAE).
Function	Voltage-sensitive calcium channel that gives rise to T-type calcium currents. T-type calcium channels belong to the 'low-voltage activated (LVA)' group. A particularity of this type of channel is an opening at quite negative potentials, and a voltage-dependent inactivation.
Calculated Mw	261 kDa
PTM	Glycoprotein
Cellular Localization	Cell membrane, Membrane

Images



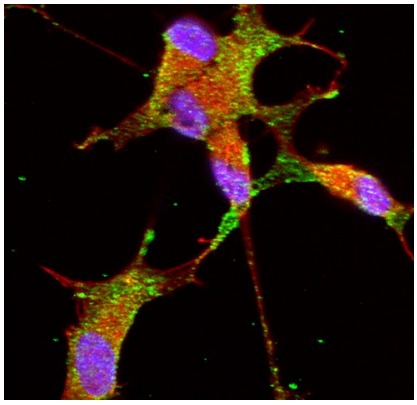
ARG24119 anti-CACNA1H antibody [N55/10] IHC-P image

Immunohistochemistry: Human hippocampus stained with ARG24119 anti-CACNA1H antibody [N55/10] at 1:1000 dilution.



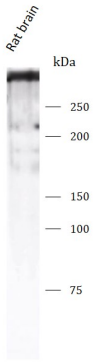
ARG24119 anti-CACNA1H antibody [N55/10] IHC-Fr image

Immunohistochemistry: Human hippocampus stained with ARG24119 anti-CACNA1H antibody [N55/10] at 1:1000 dilution.



ARG24119 anti-CACNA1H antibody [N55/10] ICC/IF image

Immunofluorescence: SH-SY5Y stained with ARG24119 anti-CACNA1H antibody [N55/10] at 1:1000 dilution.



ARG24119 anti-CACNA1H antibody [N55/10] WB image

Western blot: Rat brain stained with ARG24119 anti-CACNA1H antibody [N55/10] at 1:1000 dilution.