ARG24118
anti-CACNA1C antibody [S57]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [S57] recognizes CACNA1C
Tested Reactivity	Hu, Ms, Hm, Rb
Tested Application	ICC/IF, IHC-P, IP, WB
Specificity	Detects ~240kDa
Host	Mouse
Clonality	Monoclonal
Clone	S57
Isotype	IgG1
Target Name	CACNA1C
Species	Rabbit
Immunogen	Rabbit fusion protein of CACNA1C a.a 1507-1733
Conjugation	Un-conjugated
Alternate Names	CCHL1A1; CaV1.2; CACN2; CACNL1A1; TS; Calcium channel, L type, alpha-1 polypeptide, isoform 1, cardiac muscle; Voltage-dependent L-type calcium channel subunit alpha-1C; CACH2; LQT8; Voltage-gated calcium channel subunit alpha Cav1.2

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100
IHC-P	1:1000
IP	1:200
WB	1:1000

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

Properties

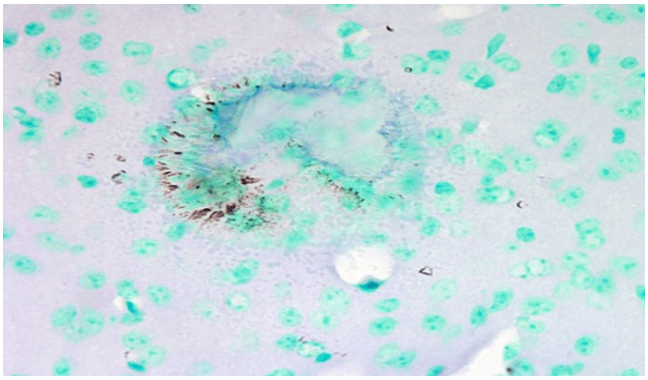
Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 50% Glycerol and 0.09% Sodium azide
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol

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

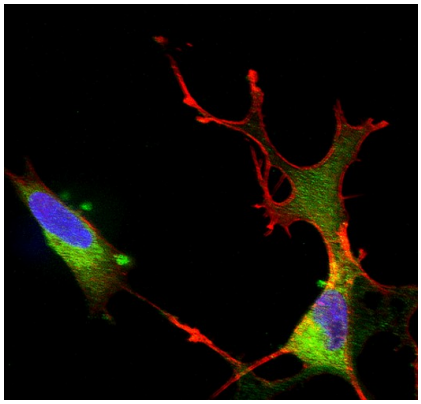
Gene Full Name	Calcium Voltage-Gated Channel Subunit Alpha1 C
Background	This gene encodes an alpha-1 subunit of a voltage-dependent calcium channel. Calcium channels mediate the influx of calcium ions into the cell upon membrane polarization. The alpha-1 subunit consists of 24 transmembrane segments 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. [provided by RefSeq, Jul 2008]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	249 kDa
PTM	Phosphorylation by PKA activates the channel.

Images



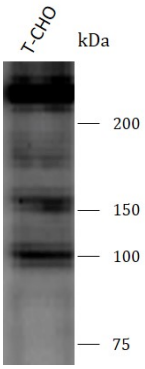
ARG24118 anti-CACNA1C antibody [S57] IHC-P image

Immunohistochemistry: Mouse Brain stained with ARG24118 anti-CACNA1C antibody [S57] at 1:1000 dilution.



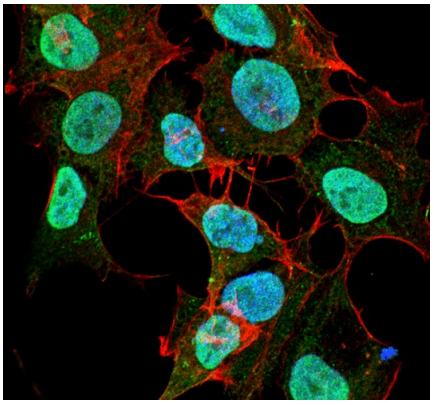
ARG24118 anti-CACNA1C antibody [S57] ICC/IF image

Immunofluorescence: SH-SY5Y stained with ARG24118 anti-CACNA1C antibody [S57] at 1:50 dilution.



ARG24118 anti-CACNA1C antibody [S57] WB image

Western blot: T-CHO stained with ARG24118 anti-CACNA1C antibody [S57] at 1:1000 dilution.



ARG24118 anti-CACNA1C antibody [S57] ICC/IF image

Immunofluorescence: SK-N-BE stained with ARG24118 anti-CACNA1C antibody [S57] at 1:100 dilution.