

ARG45193 anti-CACNA1S antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CACNA1S
Tested Reactivity	Hu, Ms, Rat, Mk
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	CACNA1S
Species	Human
Immunogen	Recombinant protein containing to human CACNA1S.
Conjugation	Un-conjugated
Alternate Names	CACNA1S; Calcium Voltage-Gated Channel Subunit Alpha1 S; CACNL1A3; Cav1.1 ; HypoPP; Calcium Channel, Voltage-Dependent, L Type, Alpha 1S Subunit; Voltage-Dependent L-Type Calcium Channel Subunit Alpha-1S; Voltage-Gated Calcium Channel Subunit Alpha Cav1.1; HOKPP; MHS5; Calcium Channel, L Type, Alpha-1 Polypeptide, Isoform, Skeletal Muscle; Dihydropyridine-Sensitive L-Type Calcium Channel Alpha-1 Subunit; Dihydropyridine Receptor Alpha 1 Subunit; CCHL1A3; CMYO18; CMYP18; HOKPP1; DHPRM; TTPP1; CACH1; CACN1

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	IHC-P	2-5 µg/ml
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	220 kDa	

Properties

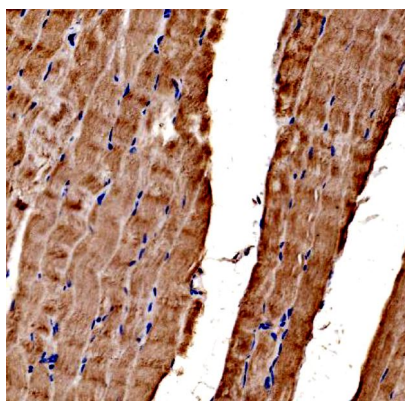
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.005% Sodium azide and 4% Trehalose.
Preservative	0.005% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

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 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

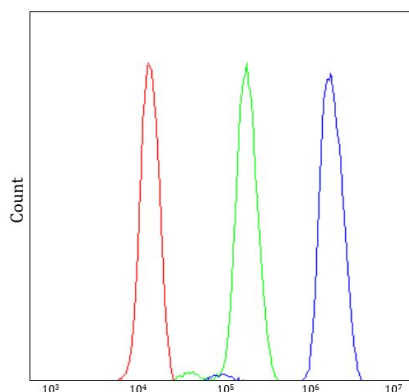
Gene Symbol	CACNA1S
Gene Full Name	Calcium Voltage-Gated Channel Subunit Alpha1 S
Background	This gene encodes one of the five subunits of the slowly inactivating L-type voltage-dependent calcium channel in skeletal muscle cells. Mutations in this gene have been associated with hypokalemic periodic paralysis, thyrotoxic periodic paralysis and malignant hyperthermia susceptibility. [provided by RefSeq, Jul 2008]
Function	Pore-forming, alpha-1S subunit of the voltage-gated calcium channel that gives rise to L-type calcium currents in skeletal muscle. Calcium channels containing the alpha-1S subunit play an important role in excitation-contraction coupling in skeletal muscle via their interaction with RYR1, which triggers Ca ²⁺ release from the sarcoplasmic reticulum and ultimately results in muscle contraction. Long-lasting (L-type) calcium channels belong to the 'high-voltage activated' (HVA) group.. [UniProt]
Calculated Mw	212 kDa
PTM	Disulfide bond; Glycoprotein; Phosphoprotein. [UniProt]
Cellular Localization	Membrane; Cell membrane. [UniProt]

Images



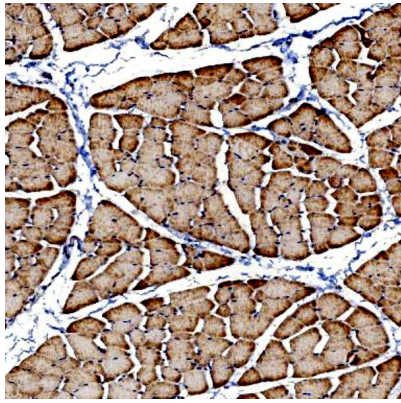
ARG45193 anti-CACNA1S antibody IHC-P image

Immunohistochemistry: Human skeletal muscle stained with ARG45193 anti-CACNA1S antibody at 1 µg/ml dilution.



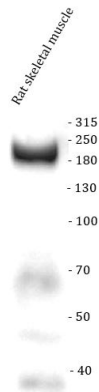
ARG45193 anti-CACNA1S antibody FACS image

Flow Cytometry: U937 stained with ARG45193 anti-CACNA1S antibody at 1 µg/10⁶ cells dilution.



ARG45193 anti-CACNA1S antibody IHC-P image

Immunohistochemistry: Rat skeletal muscle stained with ARG45193 anti-CACNA1S antibody at 1 µg/ml dilution.



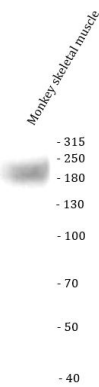
ARG45193 anti-CACNA1S antibody WB image

Western blot: Rat skeletal muscle stained with ARG45193 anti-CACNA1S antibody at 0.5 µg/ml dilution.



ARG45193 anti-CACNA1S antibody WB image

Western blot: Mouse skeletal muscle stained with ARG45193 anti-CACNA1S antibody at 0.5 µg/ml dilution.



ARG45193 anti-CACNA1S antibody WB image

Western blot: Monkey skeletal muscle stained with ARG45193 anti-CACNA1S antibody at 0.5 µg/ml dilution.