

Product datasheet

info@arigobio.com

ARG42195 anti-KCNN4 / KCa3.1 antibody

Package: 50 μg Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes KCNN4 / KCa3.1

Tested Reactivity Hu, Ms, Rat

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name KCNN4 / KCa3.1

Species Human

Immunogen Recombinant protein corresponding to K309-Q364 of Human KCNN4 / KCa3.1.

Conjugation Un-conjugated

Alternate Names SK4; IK1; KCa3.1; SKCa 4; KCA4; hKCa4; SKCa4; IKCa1; hSK4; IK; Intermediate conductance calcium-

activated potassium channel protein 4; hIKCa1; Putative Gardos channel; IKCA1; KCa4

Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Caco-2, PC-3, A549, HeLa, Rat stomach, Rat testis, Mouse testis and Mouse liver	
Observed Size	~ 48 kDa	

Properties

Form Liquid

Purification Affinity purification with immunogen.

Buffer 0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 4% Trehalose.

Preservative 0.05% 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.

Bioinformation

Gene Symbol KCNN4

Gene Full Name potassium channel, calcium activated intermediate/small conductance subfamily N alpha, member 4

Background The protein encoded by this gene is part of a potentially heterotetrameric voltage-independent

potassium channel that is activated by intracellular calcium. Activation is followed by membrane hyperpolarization, which promotes calcium influx. The encoded protein may be part of the

predominant calcium-activated potassium channel in T-lymphocytes. This gene is similar to other KCNN family potassium channel genes, but it differs enough to possibly be considered as part of a new

subfamily. [provided by RefSeq, Jul 2008]

Function Forms a voltage-independent potassium channel that is activated by intracellular calcium

(PubMed:26148990). Activation is followed by membrane hyperpolarization which promotes calcium influx. Required for maximal calcium influx and proliferation during the reactivation of naive T-cells

(PubMed:17157250, PubMed:18796614). Plays a role in the late stages of EGF-induced

macropinocytosis (PubMed:24591580). [UniProt]

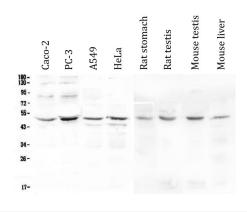
Calculated Mw 48 kDa

PTM Phosphorylation at His-358 by NDKB activates the channel, and conversely it's dephosphorylation by

PHPT1 inhibits the channel. [UniProt]

Cellular Localization Cell membrane; Multi-pass membrane protein. [UniProt]

Images



ARG42195 anti-KCNN4 / KCa3.1 antibody WB image

Western blot: 50 μ g of samples under reducing conditions. Caco-2, PC-3, A549, HeLa, Rat stomach, Rat testis, Mouse testis and Mouse liver lysates stained with ARG42195 anti-KCNN4 / KCa3.1 antibody at 0.5 μ g/ml, overnight at 4°C.