

## ARG40323 anti-KCNE1 antibody

Package: 100 µl  
Store at: -20°C

### Summary

Product Description	Rabbit Polyclonal antibody recognizes KCNE1
Tested Reactivity	Hu, Ms
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	KCNE1
Species	Human
Immunogen	Synthetic peptide within aa. 1-100 of Human KCNE1 (NP_000210.2).
Conjugation	Un-conjugated
Alternate Names	LQT5; MinK; JLNS2; Delayed rectifier potassium channel subunit Isk; Minimal potassium channel; ISK; LQT2/5; Potassium voltage-gated channel subfamily E member 1; IKs producing slow voltage-gated potassium channel subunit beta Mink; JLNS

### 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	Mouse brain and U937	
Observed Size	15 kDa	

### Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% 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. 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	KCNE1
Gene Full Name	potassium channel, voltage gated subfamily E regulatory beta subunit 1
Background	The product of this gene belongs to the potassium channel KCNE family. Potassium ion channels are essential to many cellular functions and show a high degree of diversity, varying in their electrophysiologic and pharmacologic properties. This gene encodes a transmembrane protein known to associate with the product of the KVLQT1 gene to form the delayed rectifier potassium channel. Mutation in this gene are associated with both Jervell and Lange-Nielsen and Romano-Ward forms of long-QT syndrome. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]
Function	Ancillary protein that assembles as a beta subunit with a voltage-gated potassium channel complex of pore-forming alpha subunits. Modulates the gating kinetics and enhances stability of the channel complex. Assembled with KCNB1 modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1. Assembled with KCNQ1/KVLQT1 is proposed to form the slowly activating delayed rectifier cardiac potassium (IKs) channel. The outward current reaches its steady state only after 50 seconds. Assembled with KCNH2/HERG may modulate the rapidly activating component of the delayed rectifying potassium current in heart (IKr). [UniProt]
Calculated Mw	15 kDa
PTM	Phosphorylation inhibits the potassium current.  N-glycosylation at Asn-26 occurs post-translationally, and requires prior cotranslational glycosylation at Asn-5. [UniProt]
Cellular Localization	Cell membrane; Single-pass type I membrane protein. Apical cell membrane. Membrane raft. Note=Colocalizes with KCNB1 at the plasma membrane (By similarity). Targets to the membrane raft when associated with KNCQ1 (PubMed:20533308). [UniProt]

## Images



ARG40323 anti-KCNE1 antibody WB image

Western blot: 25 µg of Mouse brain and U937 cell lysates stained with ARG40323 anti-KCNE1 antibody at 1:1000 dilution.