ARG45144
anti-Kv1.4 / RK3 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Kv1.4 / RK3
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Target Name	Kv1.4 / RK3
Species	Human
Immunogen	Synthetic peptide corresponding to C-terminal region of human Kv1.4 / RK3.
Conjugation	Un-conjugated
Alternate Names	KCNA4; Potassium voltage-gated channel subfamily A member 4; Potassium voltage-gated channel subfamily A member 4; HPCN2; Voltage-gated K (+) channel HuKII ; Voltage-gated potassium channel HBK4; Voltage-gated potassium channel HK1 ; Voltage-gated potassium channel subunit Kv1.4; KCNA4; KCNA4L; PCN2; HK1Fetal Skeletal Muscle Potassium Channel; Rapidly Inactivating Potassium Channel; Shaker-Related Potassium Channel Kv1.4; Cardiac Potassium Channe ; Type A Potassium Channel; Potassium Channel 2; MCIDDS; HUKII; KCNA8; HBK4

Application Instructions

Application table

Application	Dilution
IHC-P	0.5-1 µg/ml
WB	0.1-0.5 µg/ml

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Observed Size	73 kDa

Properties

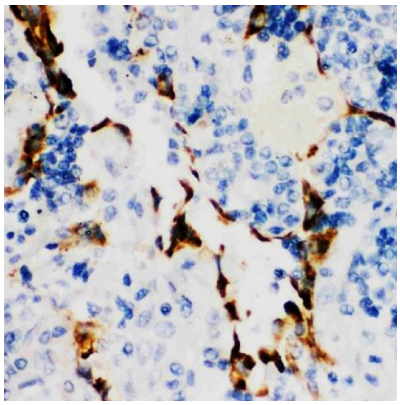
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 5% BSA.
Preservative	0.05% Sodium azide
Stabilizer	5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term 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

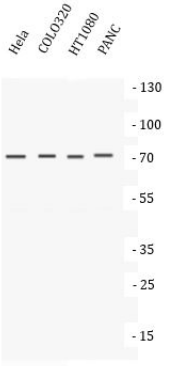
Gene Symbol	KCNA4
Gene Full Name	Potassium voltage-gated channel subfamily A member 4
Background	Potassium channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in Drosophila, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member contains six membrane-spanning domains with a shaker-type repeat in the fourth segment. It belongs to the A-type potassium current class, the members of which may be important in the regulation of the fast repolarizing phase of action potentials in heart and thus may influence the duration of cardiac action potential.[provided by RefSeq, Mar 2011]
Function	Voltage-gated potassium channel that mediates transmembrane potassium transport in excitable membranes. Forms tetrameric potassium-selective channels through which potassium ions pass in accordance with their electrochemical gradient. The channel alternates between opened and closed conformations in response to the voltage difference across the membrane. [UniProt]
Calculated Mw	73 kDa
PTM	Glycoprotein; Phosphoprotein. [UniProt]
Cellular Localization	Cell membrane; Cell projection, axon. [UniProt]

Images



ARG45144 anti-Kv1.4 / RK3 antibody IHC-P image

Immunohistochemistry: Human lung cancer stained with ARG45144 anti-Kv1.4 / RK3 antibody at 1 µg/ml dilution.



ARG45144 anti-Kv1.4 / RK3 antibody WB image

Western blot: Hela, COLO320, HT1080, and PANC stained with ARG45144 anti-Kv1.4 / RK3 antibody at 0.5 µg/ml dilution.