Datasheet for ABIN2776084

anti-KCNA1 antibody (Middle Region)

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Overview

Quantity:	100 µL
Target:	KCNA1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Pig, Dog, Horse, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNA1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human KCNA1
Sequence:	ISIVIFCLET LPELKDDKDF TGTVHRIDNT TVIYNSNIFT DPFFIVETLC
Predicted Reactivity:	Dog: 100%, Guinea Pig: 79%, Horse: 86%, Human: 100%, Mouse: 93%, Pig: 100%, Rat: 93%
Characteristics:	This is a rabbit polyclonal antibody against KCNA1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	KCNA1
Alternative Name:	KCNA1 (KCNA1 Products)

Target Details

Background:	KCNA1 mediates the voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient.This gene encodes a voltage-gated delayed potassium channel that is phylogenetically related to the Drosophila Shaker channel. The encoded protein has six putative transmembrane segments (S1-S6), and the loop between S5 and S6 forms the pore and contains the conserved selectivity filter motif (GYGD). The functional channel is a homotetramer. The N-terminus of the channel is associated with beta subunits that can modify the inactivation properties of the channel as well as affect expression levels. The C-terminus of the channel is complexed to a PDZ domain protein that is responsible for channel targeting. Mutations in this gene have been associated with myokymia with periodic ataxia (AEMK). Sequence Note: This RefSeq record was created largely from genomic sequence because transcripts were not available for the entire length of the gene. This transcript is supported by sequences from mouse. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: AEMK, EA1, HBK1, HUK1, KV1.1, MBK1, MGC126782, MGC138385, MK1, RBK1 Protein Interaction Partner: KCNRG, KCNE4, DLG4, DLG1, KCNA4, KCNA3, KCNA2, RTN4, CNTNAP1, Protein Size: 495
Molecular Weight:	56 kDa
Gene ID:	3736
NCBI Accession:	NM_000217, NP_000208
UniProt:	Q09470

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 495 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid

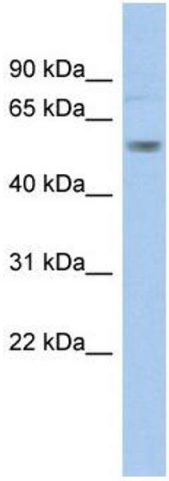
Handling

Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Hirata, Yimin, Segawa, Ozaki, Kobayashi, Shigyo, Chiba: "Xanthohumol prevents atherosclerosis by reducing arterial cholesterol content via CETP and apolipoprotein E in CETP-transgenic mice. " in: **PLoS ONE**, Vol. 7, Issue 11, pp. e49415, (2012) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-KCNA1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: Human Stomach