

Datasheet for ABIN2778213
anti-Kv2.1/KCNB1 antibody (Middle Region)



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1 Image

Overview

Quantity:	100 µL
Target:	Kv2.1/KCNB1 (KCNB1)
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Dog, Horse, Pig, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Kv2.1/KCNB1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human KCNB1
Sequence:	YIDADTDDEG QLLYSVDSSP PKSLPGSTSP KFSTGTRSEK NHFESSPLPT
Predicted Reactivity:	Cow: 92%, Dog: 93%, Guinea Pig: 86%, Horse: 86%, Human: 100%, Mouse: 79%, Pig: 93%, Rat: 86%
Characteristics:	This is a rabbit polyclonal antibody against KCNB1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	Kv2.1/KCNB1 (KCNB1)
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Target Details

Alternative Name:	KCNB1 (KCNB1 Products)
Background:	<p>Voltage-gated potassium (Kv) 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, shab-related subfamily. This member is a delayed rectifier potassium channel and its activity is modulated by some other family members. Voltage-gated potassium (Kv) 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, shab-related subfamily. This member is a delayed rectifier potassium channel and its activity is modulated by some other family members. 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.</p> <p>Alias Symbols: DRK1, KV2.1, h-DRK1</p> <p>Protein Interaction Partner: STX1A, KCNG3, KCNG4, KCNV1, KCNB2, KCNG1, KCNB1, SRC, SUMO1, NEDD4L, KCNV2, KCNG2, KCNS3, PTPRE, SNAP25, KCNH1,</p> <p>Protein Size: 858</p>
Molecular Weight:	96 kDa
Gene ID:	3745
NCBI Accession:	NM_004975 , NP_004966
UniProt:	Q14721
Pathways:	Synaptic Membrane

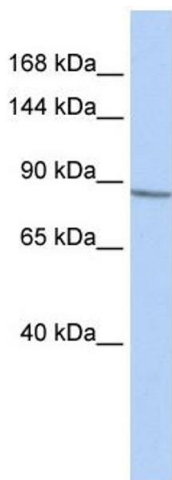
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 858 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
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.

Images



Western Blotting

Image 1. WB Suggested Anti-KCNB1 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: HepG2 cell lysate