Datasheet for ABIN2776308

anti-KCND3 antibody (Middle Region)

1 Image

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Overview

Quantity:	100 µL
Target:	KCND3
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Rabbit, Cow, Guinea Pig, Horse, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCND3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human KCND3
Sequence:	VAKTGSSNAY LHSKRNGLLN EALELTGTPE EEHMGKTTSL IESQHHHLLH
Predicted Reactivity:	Cow: 100%, Dog: 92%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against KCND3. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	KCND3

Target Details

Alternative Name:	KCND3 (KCND3 Products)
Background:	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). KCND3 encodes a member of the potassium channel, voltage-gated, shal-related subfamily, members of which form voltage-activated A-type potassium ion channels and are prominent in the repolarization phase of the action potential. 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, shal-related subfamily, members of which form voltage-activated A-type potassium ion channels and are prominent in the repolarization phase of the action potential. This member includes two isoforms with different sizes, which are encoded by alternatively spliced transcript variants of this gene. Alias Symbols: KCND3L, KCND3S, KSHIVB, KV4.3, MGC142035, MGC142037 Protein Interaction Partner: NDUFS2, NAP1L1, LBR, HSPA8, HSPA5, HNRNPF, XRCC6, EWSR1, EMD, DDB1, CUX1, CDK1, AUP1, NONO, XRCC5, UQCRC2, TUBB2A, RCN2, Rapgef5, Rapgef4, Kcnip1, Rapgef3, Kcnip2, DPP10, PYCR2, VPS4A, TUBA1B, G3BP1, RUVBL1, CNBP, SRC, KCND3, Protein Size: 636
Molecular Weight:	71 kDa
Gene ID:	3752
NCBI Accession:	NM_172198, NP_751948
UniProt:	Q14D71

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 636 AA

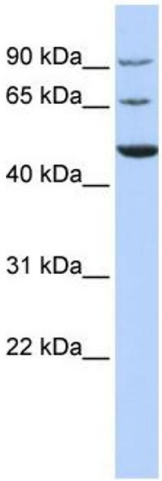
Application Details

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-KCND3 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:1562500 Positive Control: HepG2 cell lysate

