KCND2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KCND2, Polyclonal Antibody
Full Product Name	KCND2 Polyclonal Antibody
Product Gene Name	anti-KCND2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	70kDa
OMIM	605410
3D Structure	ModBase 3D Structure for Q9NZV8
Immunogen	Recombinant protein of human KCND2 (NP_036413.1).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-KCND2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-KCND2 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-KCND2 antibody	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 mediates a rapidly inactivating, A-type outward potassium current which is not under the control of the N terminus as it is in Shaker channels.
Other Notes	Small volumes of anti-KCND2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for KCND2 purchase	MBS8572797 is an antibody targeting KCND2. Also known as KCND2 Polyclonal Antibody. Reactive in Human, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KCND2. It may not necessarily be applicable to this product.

NCBI GI #	38258257
NCBI GeneID	3751

NCBI Accession #	Q9NZV8.2
UniProt Primary Accession #	Q9NZV8
UniProt Related Accession #	Q9NZV8
NCBI Official Full Name	Potassium voltage-gated channel subfamily D member 2
NCBI Official Synonym Full Names	potassium voltage-gated channel subfamily D member 2
NCBI Official Symbol	KCND2
NCBI Official Synonym Symbols	RK5; KV4.2
UniProt Protein Name	Potassium voltage-gated channel subfamily D member 2
UniProt Synonym Protein Names	Voltage-gated potassium channel subunit Kv4.2
Protein Family	Potassium voltage-gated channel subfamily
UniProt Gene Name	KCND2
UniProt Synonym Gene Names	KIAA1044
UniProt Entry Name	KCND2_HUMAN
NCBI Protein Information	potassium voltage-gated channel subfamily D member 2
NCBI Summary for KCND2	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 mediates a rapidly inactivating, A-type outward potassium current which is not under the control of the N terminus as it is in Shaker channels. [provided by RefSeq, Jul 2008]
UniProt Comments for KCND2	Kv4.2: Pore-forming (alpha) subunit of voltage-gated rapidly inactivating A-type potassium channels. May contribute to I(To) current in heart and I(Sa) current in neurons. Channel properties are modulated by interactions with other alpha subunits and with regulatory subunits. Belongs to the potassium channel family. D (Shal) (TC 1.A.1.2) subfamily. Kv4.2/KCND2 sub-subfamily. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Channel, potassium Chromosomal Location of Human Ortholog: 7q31 Cellular Component: postsynaptic membrane; voltage-gated potassium channel complex; integral to plasma membrane; integral to membrane; plasma membrane; dendritic spine; intrinsic to plasma membrane Molecular Function: protein binding; voltage-gated potassium channel activity; delayed rectifier potassium channel activity; metal ion binding; A-type (transient outward) potassium channel activity Biological Process: regulation of action potential; synaptic transmission; protein homooligomerization
Research Articles on KCND2	**1.** KCND2 upregulation is a valuable prognostic biomarker in gastric cancer patients, in terms of overall survival and recurrence-free survival.
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