

Rabbit KCND3 Polyclonal Antibody | anti-KCND3 antibody

KCND3 Antibody (N-term)

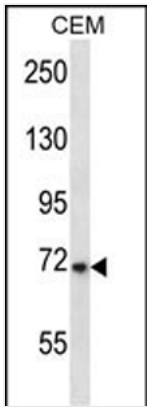
CATALOG # AAA284863	HOST Rabbit	REACTIVITY Human (Predicted Reactivity: Mouse, Rat)	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

KCND3; Polyclonal Antibody; KCND3 Antibody (N-term); Potassium voltage-gated channel subfamily D member 3; Voltage-gated potassium channel subunit Kv43; anti-KCND3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Rat)
Clonality	Polyclonal
Isotype	IgG
Specificity	This KCND3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 13-41 amino acids from the N-terminal region of human KCND3.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	13-41
Sequence Length	636
Applicable Applications for anti-KCND3 antibody	ELISA, WB (Western Blot)
Function	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.
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:Q62897}; Multi-pass membrane protein. Cell membrane, sarcolemma {ECO:0000250 UniProtKB:Q62897}; Multi-pass membrane protein. Cell projection, dendrite {ECO:0000250 UniProtKB:Q62897}. Note: Interaction with palmitoylated KCNIP2 and KCNIP3 enhances cell surface expression {ECO:0000250 UniProtKB:Q62897}
Tissue Location	Highly expressed in heart and brain, in particular in cortex, cerebellum, amygdala and caudate nucleus. Detected at lower levels in liver, skeletal muscle, kidney and pancreas. Isoform 1 predominates in most tissues. Isoform 1 and isoform 2 are detected at similar levels in brain, skeletal muscle and pancreas
Preparation and Storage	Store at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



WB (Western Blot)
KCND3 Antibody (N-term) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the KCND3 antibody detected the KCND3 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-KCND3 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 includes two isoforms with different sizes, which are encoded by alternatively spliced transcript variants of this gene. [provided by RefSeq].
Product Categories/Family for anti-KCND3 antibody	Cardiovascular; Neuroscience
References	Lundby, A., et al. Br. J. Pharmacol. 160(8):2028-2044(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) : Liang, P., et al. Biophys. J. 98(12):2867-2876(2010) Cotella, D., et al. Pflugers Arch. 460(1):87-97(2010) Tan, X.Q., et al. Zhonghua Xin Xue Guan Bing Za Zhi 37(6):509-513(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	27436984
NCBI GeneID	3752
NCBI Accession #	NP_004971.2; NP_751948.1
NCBI GenBank Nucleotide #	NM_004980.4
UniProt Accession #	Q9UK17; O60576; O60577; Q14D71; Q5T0M0; Q9UH85; Q9UH86; Q9UK16
Molecular Weight	Calculated MW: 73451
NCBI Official Full Name	potassium voltage-gated channel subfamily D member 3 isoform 1
NCBI Official Synonym Full Names	potassium channel, voltage gated Shal related subfamily D, member 3
NCBI Official Symbol	KCND3
NCBI Official Synonym Symbols	KV4.3; SCA19; SCA22; BRGDA9; KCND3L; KCND3S; KSHIVB
NCBI Protein Information	potassium voltage-gated channel subfamily D member 3
UniProt Protein Name	Potassium voltage-gated channel subfamily D member 3

UniProt Gene Name	KCND3
UniProt Entry Name	KCND3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/kcnd3-antibody-western-blot-elisa/284863>