

KCND3 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14226a**Specification**

KCND3 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9UK17
Other Accession	O62897 , O9Z0V1 , NP_751948.1 , NP_004971.2
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	73451
Antigen Region	13-41

KCND3 Antibody (N-term) - Additional Information**Gene ID** 3752**Other Names**

Potassium voltage-gated channel subfamily D member 3, Voltage-gated potassium channel subunit Kv43, KCND3

Target/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.

Dilution

WB~~1:1000

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.

Storage

Maintain refrigerated 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.

Precautions

KCND3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

KCND3 Antibody (N-term) - Protein Information**Name** KCND3

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

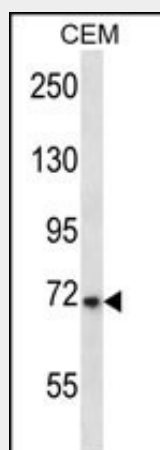
Highly expressed in heart and brain, in particular in cortex, cerebellum, amygdala and caudate nucleus. Detected at lower levels in liver, skeletal muscle, kidney and pancreas. Isoform 1 predominates in most tissues. Isoform 1 and isoform 2 are detected at similar levels in brain, skeletal muscle and pancreas

KCND3 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KCND3 Antibody (N-term) - Images



KCND3 Antibody (N-term) (Cat. #AP14226a) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the KCND3 antibody detected the KCND3 protein (arrow).

KCND3 Antibody (N-term) - 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). 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].

KCND3 Antibody (N-term) - 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)