10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KCND3 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP14226a

Specification

KCND3 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9UK17

KCND3 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 3752

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

KCND3 Antibody (N-term) Blocking Peptide - 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

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KCND3 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

KCND3 Antibody (N-term) Blocking Peptide - Images

KCND3 Antibody (N-term) Blocking Peptide - Background

Voltage-gated potassium (Kv) channels represent the mostcomplex class of voltage-gated ion channels from both functionaland structural standpoints. Their diverse functions includeregulating neurotransmitter release, heart rate, insulin secretion,neuronal excitability, epithelial electrolyte transport, smoothmuscle contraction, and cell volume. Four sequence-relatedpotassium channel genes - shaker, shaw, shab, and shal - have beenidentified in Drosophila, and each has been shown to have humanhomolog(s). This gene encodes a member of the potassium channel,voltage-gated, shal-related subfamily, members of which formvoltage-activated A-type potassium ion channels and are prominentin the repolarization phase of the action potential. This memberincludes two isoforms with different sizes, which are encoded byalternatively spliced transcript variants of this gene. [providedby RefSeq].

KCND3 Antibody (N-term) Blocking Peptide - 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)