

KCND1 Antibody (N-term) Blocking peptide

Synthetic peptide Catalog # BP13021a

Specification

KCND1 Antibody (N-term) Blocking peptide - Product Information

Primary Accession <u>Q9NSA2</u>

KCND1 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 3750

Other Names

Potassium voltage-gated channel subfamily D member 1, Voltage-gated potassium channel subunit Kv41, KCND1

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.

KCND1 Antibody (N-term) Blocking peptide - Protein Information

Name KCND1

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

Membrane; Multi-pass membrane protein. Cell projection, dendrite

Tissue Location

Widely expressed. Highly expressed in brain, in particular in cerebellum and thalamus; detected at lower levels in the other parts of the brain.

KCND1 Antibody (N-term) Blocking peptide - Protocols

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



Tel: 858.875.1900 Fax: 858.875.1999

• Blocking Peptides

KCND1 Antibody (N-term) Blocking peptide - Images

KCND1 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-related potassium 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 gene isexpressed at moderate levels in all tissues analyzed, with lowerlevels in skeletal muscle.

KCND1 Antibody (N-term) Blocking peptide - References

Jang, S.H., et al. Biochem. Biophys. Res. Commun. 384(2):180-186(2009)Gutman, G.A., et al. Pharmacol. Rev. 57(4):473-508(2005)Jerng, H.H., et al. Biophys. J. 87(4):2380-2396(2004)Nakamura, T.Y., et al. FEBS Lett. 499(3):205-209(2001)Isbrandt, D., et al. Genomics 64(2):144-154(2000)