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KCND1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP13021A

Specification

KCND1 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q9NSA2
Other Accession	Q03719, Q52PG9, NP_004970.3
Reactivity	**Human**
Predicted	**Bovine, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**71330**
Antigen Region	**118-147**

KCND1 Antibody (N-term) - Additional Information

Gene ID 3750

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

Target/Specificity
This KCND1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 118-147 amino acids from the N-terminal region of human KCND1.

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
KCND1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

KCND1 Antibody (N-term) - 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

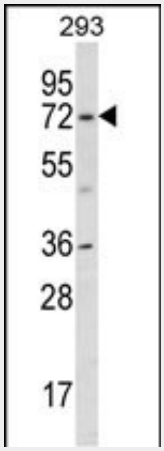
Tissue Location
Widely expressed. Highly expressed in brain, in particular in cerebellum and thalamus; detected at lower levels in the other parts of the brain.

KCND1 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KCND1 Antibody (N-term) - Images



KCND1 Antibody (N-term) (Cat. #AP13021a) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the KCND1 antibody detected the KCND1 protein (arrow).

KCND1 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 gene is expressed at moderate levels in all tissues analyzed, with lower levels in skeletal muscle.

KCND1 Antibody (N-term) - References

Jang, S.H., et al. Biochem. Biophys. Res. Commun. 384(2):180-186(2009)
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Jerng, H.H., et al. Biophys. J. 87(4):2380-2396(2004)
Nakamura, T.Y., et al. FEBS Lett. 499(3):205-209(2001)
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