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KCNG2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP18984c

Specification

KCNG2 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q9UJ96
Other Accession	NP_036415.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**51240**
Antigen Region	**149-177**

KCNG2 Antibody (Center) - Additional Information

Gene ID 26251

Other Names
Potassium voltage-gated channel subfamily G member 2, Cardiac potassium channel subunit, Voltage-gated potassium channel subunit Kv62, KCNG2, KCNF2

Target/Specificity
This KCNG2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 149-177 amino acids from the Central region of human KCNG2.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

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
KCNG2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

KCNG2 Antibody (Center) - Protein Information

Name KCNG2 (HGNC:6249)

Function Regulatory alpha-subunit of the voltage-gated potassium (Kv) channel which, when coassembled with KCNB1, can modulate the kinetics and conductance-voltage relationship (PubMed:10551266). Modulates channel activity by shifting the threshold and the half-maximal activation to more negative values (Probable). Potassium channel subunit that does not form functional channels by itself (Probable).

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:Q14721}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P63142}

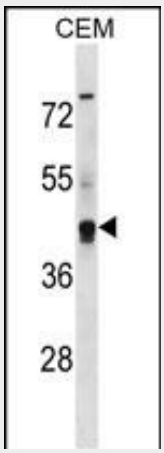
Tissue Location
Highly expressed in heart, liver, skeletal muscle, kidney and pancreas. Detected at low levels in brain, lung and placenta.

KCNG2 Antibody (Center) - 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

KCNG2 Antibody (Center) - Images



KCNG2 Antibody (Center) (Cat. #AP18984c) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the KCNG2 antibody detected the KCNG2 protein (arrow).

KCNG2 Antibody (Center) - 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. This gene encodes a member of

the potassium channel, voltage-gated, subfamily G. This member is a gamma subunit of the voltage-gated potassium channel. The delayed-rectifier type channels containing this subunit may contribute to cardiac action potential repolarization. [provided by RefSeq].

KCNG2 Antibody (Center) - References

Gutman, G.A., et al. Pharmacol. Rev. 57(4):473-508(2005)
Zhu, X.R., et al. Recept. Channels 6(5):337-350(1999)