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KCNG3 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP4954a

Specification

KCNG3 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q8TAE7

KCNG3 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 170850

Other Names
Potassium voltage-gated channel subfamily G member 3, Voltage-gated potassium channel subunit Kv101, Voltage-gated potassium channel subunit Kv63, KCNG3

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.

KCNG3 Antibody (N-term) Blocking Peptide - Protein Information

Name KCNG3

Function
Potassium channel subunit that does not form functional channels by itself (PubMed:11852086). Can form functional heterotetrameric channels with KCNB1; this promotes a reduction in the rate of activation and inactivation of the delayed rectifier voltage- gated potassium channel KCNB1 (PubMed:11852086, PubMed:19074135).

Cellular Location
Cell membrane; Multi-pass membrane protein. Cytoplasm. Note=Has to be associated with KCNB1 or possibly another partner to get inserted in the plasma membrane (PubMed:12060745). Colocalizes with KCNB1 at the plasma membrane (PubMed:12060745, PubMed:19074135). Remains intracellular in the absence of KCNB1 (PubMed:12060745).

Tissue Location
Expressed in the brain, liver, testis, small intestine, colon, thymus and adrenal gland (PubMed:11852086, PubMed:12060745).

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KCNG3 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

KCNG3 Antibody (N-term) Blocking Peptide - Images

KCNG3 Antibody (N-term) Blocking Peptide - 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 functioning as a modulatory molecule.

KCNG3 Antibody (N-term) Blocking Peptide - References

Mederos Y Schnitzler, M., et al. J. Biol. Chem. 284(7):4695-4704(2009)Gutman, G.A., et al. Pharmacol. Rev. 57(4):473-508(2005)Vega-Saenz de Miera, E.C. Brain Res. Mol. Brain Res. 123 (1-2), 91-103 (2004)