

**KCNQ3 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP4954a****Specification**

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**KCNQ3 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q8TAE7](#)**KCNQ3 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, KCNQ3

**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.

**KCNQ3 Antibody (N-term) Blocking Peptide - Protein Information****Name** KCNQ3**Function**

Potassium channel subunit that does not form functional channels by itself (PubMed:&lt;a href="http://www.uniprot.org/citations/11852086" target="\_blank"&gt;11852086&lt;/a&gt;). 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:&lt;a href="http://www.uniprot.org/citations/11852086" target="\_blank"&gt;11852086&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/19074135" target="\_blank"&gt;19074135&lt;/a&gt;).

**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).

### **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)