

KCNN1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17223b**Specification**

KCNN1 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q92952](#)**KCNN1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 3780**Other Names**

Small conductance calcium-activated potassium channel protein 1, SK1, SKCa 1, SKCa1, KCa21, KCNN1, SK

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.

KCNN1 Antibody (C-term) Blocking Peptide - Protein Information**Name** KCNN1 {ECO:0000303|PubMed:10516439, ECO:0000312|HGNC:HGNC:6290}**Function**

Small conductance calcium-activated potassium channel that mediates the voltage-independent transmembrane transfer of potassium across the cell membrane through a constitutive interaction with calmodulin which binds the intracellular calcium allowing its opening (PubMed:17142458, PubMed:8781233, PubMed:9287325). The current is characterized by a voltage-independent activation, an intracellular calcium concentration increase-dependent activation and a single- channel conductance of about 3 picosiemens (PubMed:8781233). Also presents an inwardly rectifying current, thus reducing its already small outward conductance of potassium ions, which is particularly the case when the membrane potential displays positive values, above + 20 mV (Probable). Activation is followed by membrane hyperpolarization (By similarity). Thought to regulate neuronal excitability by contributing to the slow component of synaptic afterhyperpolarization (By similarity).

Cellular Location

Membrane; Multi-pass membrane protein. Cytoplasm, myofibril, sarcomere, Z line

{ECO:0000250|UniProtKB:Q9EQR3}

KCNN1 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

KCNN1 Antibody (C-term) Blocking Peptide - Images

KCNN1 Antibody (C-term) Blocking Peptide - Background

Action potentials in vertebrate neurons are followed by an afterhyperpolarization (AHP) that may persist for several seconds and may have profound consequences for the firing pattern of the neuron. Each component of the AHP is kinetically distinct and is mediated by different calcium-activated potassium channels. The protein encoded by this gene is activated before membrane hyperpolarization and is thought to regulate neuronal excitability by contributing to the slow component of synaptic AHP. The encoded protein is an integral membrane protein that forms a voltage-independent calcium-activated channel with three other calmodulin-binding subunits. This gene is a member of the KCNN family of potassium channel genes.

KCNN1 Antibody (C-term) Blocking Peptide - References

Wu, C., et al. Proteomics 7(11):1775-1785(2007) Wei, A.D., et al. Pharmacol. Rev. 57(4):463-472(2005) Arnold, S.J., et al. Neuroreport 14(2):191-195(2003) Boettger, M.K., et al. Brain 125 (PT 2), 252-263 (2002) :Zhang, B.M., et al. Biochemistry 40(10):3189-3195(2001)