

KCNS3 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP17334a**Specification**

KCNS3 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O9BQ31](#)**KCNS3 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 3790**Other Names**

Potassium voltage-gated channel subfamily S member 3, Delayed-rectifier K(+) channel alpha subunit 3, Voltage-gated potassium channel subunit Kv93, KCNS3

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.

KCNS3 Antibody (N-term) Blocking Peptide - Protein Information**Name** KCNS3**Function**

Potassium channel subunit that does not form functional channels by itself. Can form functional heterotetrameric channels with KCNB1; modulates the delayed rectifier voltage-gated potassium channel activation and deactivation rates of KCNB1 (PubMed:10484328).

Heterotetrameric channel activity formed with KCNB1 show increased current amplitude with the threshold for action potential activation shifted towards more negative values in hypoxic-treated pulmonary artery smooth muscle cells (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein. Note=May not reach the plasma membrane but remain in an intracellular compartment in the absence of KCNB1 (PubMed:10484328).

Tissue Location

Detected in whole normal term placental and placental chorionic plate arteries and veins. Detected in syncytiotrophoblast and in blood vessel endothelium within intermediate villi and chorionic plate (at protein level) (PubMed:22943705) Detected in most tissues, but not in peripheral blood lymphocytes. The highest levels of expression are in lung (PubMed:10484328)

KCNS3 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

KCNS3 Antibody (N-term) Blocking Peptide - Images

KCNS3 Antibody (N-term) Blocking Peptide - Background

Voltage-gated potassium channels form the largest and most diversified class of ion channels and are present in both excitable and nonexcitable cells. Their main functions are associated with the regulation of the resting membrane potential and the control of the shape and frequency of action potentials. The alpha subunits are of 2 types: those that are functional by themselves and those that are electrically silent but capable of modulating the activity of specific functional alpha subunits. The protein encoded by this gene is not functional by itself but can form heteromultimers with member 1 and with member 2 (and possibly other members) of the Shab-related subfamily of potassium voltage-gated channel proteins. This gene belongs to the S subfamily of the potassium channel family.

KCNS3 Antibody (N-term) Blocking Peptide - References

Nyholt, D.R., et al. Hum. Mol. Genet. 17(21):3318-3331(2008) van Es, M.A., et al. Nat. Genet. 40(1):29-31(2008) Schymick, J.C., et al. Lancet Neurol 6(4):322-328(2007) Gutman, G.A., et al. Pharmacol. Rev. 57(4):473-508(2005) Kerscheneiner, D., et al. Proc. Natl. Acad. Sci. U.S.A. 102(17):6160-6165(2005)