

KCNE4 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP18476c**Specification**

KCNE4 Antibody (Center) Blocking Peptide - Product Information

Primary Accession [Q8WWG9](#)

KCNE4 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 23704

Other Names

Potassium voltage-gated channel subfamily E member 4, MinK-related peptide 3, Minimum potassium ion channel-related peptide 3, Potassium channel subunit beta MiRP3, KCNE4

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.

KCNE4 Antibody (Center) Blocking Peptide - Protein Information

Name KCNE4 ([HGNC:6244](#))

Function

Ancillary protein that assembles as a beta subunit with a voltage-gated potassium channel complex of pore-forming alpha subunits. Modulates the gating kinetics and enhances stability of the channel complex. Associates with KCNQ1/KVLQT1 and inhibits potassium currents.

Cellular Location

Membrane; Single-pass membrane protein

Tissue Location

Predominantly expressed in embryo and adult uterus. Low expression found in kidney, small intestine, lung and heart

KCNE4 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

KCNE4 Antibody (Center) Blocking Peptide - Images

KCNE4 Antibody (Center) 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, Isk-related subfamily. This member is a type I membrane protein, and a beta subunit that assembles with a potassium channel alpha-subunit to modulate the gating kinetics and enhance stability of the multimeric complex. This gene is prominently expressed in the embryo and in adult uterus.

KCNE4 Antibody (Center) Blocking Peptide - References

Levy, D.I., et al. J. Physiol. (Lond.) 588 (PT 14), 2657-2668 (2010) :Sole, L., et al. J. Cell. Sci. 122 (PT 20), 3738-3748 (2009) :Trevino, L.R., et al. Nat. Genet. 41(9):1001-1005(2009) Manderfield, L.J., et al. J. Physiol. (Lond.) 587 (PT 2), 303-314 (2009) :Levy, D.I., et al. Am. J. Physiol. Renal Physiol. 295 (2), F380-F387 (2008) :