

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

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**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) :