

KCNA6 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP17189a**Specification**

KCNA6 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P17658](#)**KCNA6 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 3742**Other Names**

Potassium voltage-gated channel subfamily A member 6, Voltage-gated potassium channel HBK2, Voltage-gated potassium channel subunit Kv16, KCNA6

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.

KCNA6 Antibody (N-term) Blocking Peptide - Protein Information**Name** KCNA6**Function**

Voltage-gated potassium channel that mediates transmembrane potassium transport in excitable membranes. Forms tetrameric potassium- selective channels through which potassium ions pass in accordance with their electrochemical gradient (PubMed:2347305, PubMed:14575698). The channel alternates between opened and closed conformations in response to the voltage difference across the membrane (PubMed:2347305, PubMed:14575698). Can form functional homotetrameric channels and heterotetrameric channels that contain variable proportions of KCNA1, KCNA2, KCNA4, KCNA6, and possibly other family members as well; channel properties depend on the type of alpha subunits that are part of the channel (By similarity). Channel properties are modulated by cytoplasmic beta subunits that regulate the subcellular location of the alpha subunits and promote rapid inactivation (By similarity). Homotetrameric channels display rapid activation and slow inactivation (PubMed:2347305).

Cellular Location

Cell membrane; Multi-pass membrane protein

KCNA6 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

KCNA6 Antibody (N-term) Blocking Peptide - Images

KCNA6 Antibody (N-term) Blocking Peptide - Background

Potassium 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. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in *Drosophila*, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member contains six membrane-spanning domains with a shaker-type repeat in the fourth segment. It belongs to the delayed rectifier class. The coding region of this gene is intronless, and the gene is clustered with genes KCNA1 and KCNA5 on chromosome 12.

KCNA6 Antibody (N-term) Blocking Peptide - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) ; Tan, K.M., et al. Neurology 70(20):1883-1890(2008) ; Yusifov, T., et al. Proc. Natl. Acad. Sci. U.S.A. 105(1):376-381(2008) ; Lamesch, P., et al. Genomics 89(3):307-315(2007) ; Gutman, G.A., et al. Pharmacol. Rev. 57(4):473-508(2005)