

KCNA3 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14690c**Specification**

KCNA3 Antibody (Center) Blocking Peptide - Product Information

Primary Accession [P22001](#)

KCNA3 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 3738

Other Names

Potassium voltage-gated channel subfamily A member 3, HGK5, HLK3, HPCN3, Voltage-gated K(+) channel HuKIII, Voltage-gated potassium channel subunit Kv13, KCNA3, HGK5

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.

KCNA3 Antibody (Center) Blocking Peptide - Protein Information

Name KCNA3

Synonyms HGK5

Function

Mediates the voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient.

Cellular Location

Cell membrane; Multi-pass membrane protein

KCNA3 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

KCNA3 Antibody (Center) Blocking Peptide - Images**KCNA3 Antibody (Center) 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 a 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, members of which allow nerve cells to efficiently repolarize following an action potential. It plays an essential role in T-cell proliferation and activation. This gene appears to be intronless and it is clustered together with KCNA2 and KCNA10 genes on chromosome 1.

KCNA3 Antibody (Center) Blocking Peptide - References

Wang, T., et al. *J. Neurosci.* 30(14):5020-5027(2010) Tu, L.W., et al. *J. Mol. Biol.* 396(5):1346-1360(2010) Pouloupoulou, C., et al. *Neurobiol. Dis.* 37(2):339-348(2010) Nicolaou, S.A., et al. *Cell Calcium* 47(1):19-28(2010) Feng, D.Y., et al. *Zhonghua Xin Xue Guan Bing Za Zhi* 37(7):599-604(2009)