

KCNAB3 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP18488c**Specification**

KCNAB3 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [O43448](#)**KCNAB3 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 9196**Other Names**

Voltage-gated potassium channel subunit beta-3, K(+) channel subunit beta-3, Kv-beta-3, KCNAB3, KCNA3B

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.

KCNAB3 Antibody (Center) Blocking Peptide - Protein Information**Name** KCNAB3**Synonyms** KCNA3B**Function**

Accessory potassium channel protein which modulates the activity of the pore-forming alpha subunit. Alters the functional properties of Kv1.5.

Cellular Location

Cytoplasm.

Tissue Location

Brain specific. Most prominent expression in cerebellum. Weaker signals detected in cortex, occipital lobe, frontal lobe and temporal lobe. Not detected in spinal cord, heart, lung, liver, kidney, pancreas, placenta and skeletal muscle

KCNAB3 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

KCNAB3 Antibody (Center) Blocking Peptide - Images

KCNAB3 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. 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 is one of the beta subunits, which are auxiliary proteins associating with functional Kv-alpha subunits. This member and the KCNA5 gene product assemble into a heteromultimeric A-type channel that inactivates completely and is significantly faster than other A-type Kv channels.

KCNAB3 Antibody (Center) Blocking Peptide - References

Olsen, J.V., et al. *Cell* 127(3):635-648(2006) Olsen, J.V., et al. *Cell* 127(3):635-648(2006) Leicher, T., et al. *J. Biol. Chem.* 273(52):35095-35101(1998) McCormack, K., et al. *FEBS Lett.* 370 (1-2), 32-36 (1995) :