

KCNAB3 Antibody (Center) Blocking Peptide

Synthetic peptide Catalog # BP18488c

Specification

KCNAB3 Antibody (Center) Blocking Peptide - Product Information

Primary Accession

<u>043448</u>

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.

<u>Blocking Peptides</u>

KCNAB3 Antibody (Center) Blocking Peptide - Images

KCNAB3 Antibody (Center) Blocking Peptide - Background

Voltage-gated potassium (Kv) channels represent the mostcomplex class of voltage-gated ion channels from both functionaland structural standpoints. Their diverse functions includeregulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smoothmuscle contraction, and cell volume. Four sequence-relatedpotassium channel genes - shaker, shaw, shab, and shal - have beenidentified in Drosophila, and each has been shown to have humanhomolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member is one of thebeta subunits, which are auxiliary proteins associating withfunctional Kv-alpha subunits. This member and the KCNA5 geneproduct assemble into a heteromultimeric A-type channel thatinactivates completely and is significantly faster than otherA-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) :