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KCNV1 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP5787a

Specification

KCNV1 Antibody (N-term) Blocking peptide - Product Information

Primary Accession	Q6PIU1
Other Accession	NP_055194.1

KCNV1 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 27012

Other Names
Potassium voltage-gated channel subfamily V member 1, Neuronal potassium channel alpha subunit HNKA, Voltage-gated potassium channel subunit Kv81, KCNV1

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.

KCNV1 Antibody (N-term) Blocking peptide - Protein Information

Name KCNV1

Function
Potassium channel subunit that does not form functional channels by itself. Modulates KCNB1 and KCNB2 channel activity by shifting the threshold for inactivation to more negative values and by slowing the rate of inactivation. Can down-regulate the channel activity of KCNB1, KCNB2, KCNC4 and KCND1, possibly by trapping them in intracellular membranes.

Cellular Location
Cell membrane; Multi-pass membrane protein. Note=Has to be associated with another potassium channel subunit to get inserted in the plasma membrane. Remains intracellular in the absence of KCNB2

Tissue Location
Detected in brain..

KCNV1 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

KCNV1 Antibody (N-term) Blocking peptide - Images

KCNV1 Antibody (N-term) 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. This gene encodes a member ofthe potassium voltage-gated channel subfamily V. This protein isessentially present in the brain, and its role might be to inhibitthe function of a particular class of outward rectifier potassiumchannel types.

KCNV1 Antibody (N-term) Blocking peptide - References

Gutman, G.A., et al. Pharmacol. Rev. 57(4):473-508(2005)Ebihara, M., et al. Gene 325, 89-96 (2004) :Sano, A., et al. Epilepsia 43 SUPPL 9, 26-31 (2002) :Salinas, M., et al. J. Biol. Chem. 272(13):8774-8780(1997)Hugnot, J.P., et al. EMBO J. 15(13):3322-3331(1996)