

KCNV1 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP5787a**Specification**

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

Primary Accession [O6PIU1](#)
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

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 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. This gene encodes a member of the potassium voltage-gated channel subfamily V. This protein is essentially present in the brain, and its role might be to inhibit the function of a particular class of outward rectifier potassium channel 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)