

KCNIP2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP19353a**Specification**

KCNIP2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q9NS61](#)**KCNIP2 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 30819**Other Names**

Kv channel-interacting protein 2, KCHIP2, A-type potassium channel modulatory protein 2, Cardiac voltage-gated potassium channel modulatory subunit, Potassium channel-interacting protein 2, KCNIP2, KCHIP2

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.

KCNIP2 Antibody (N-term) Blocking Peptide - Protein Information**Name** KCNIP2 ([HGNC:15522](#))**Function**

Regulatory subunit of Kv4/D (Shal)-type voltage-gated rapidly inactivating A-type potassium channels (PubMed: [10676964](http://www.uniprot.org/citations/10676964), PubMed: [11287421](http://www.uniprot.org/citations/11287421), PubMed: [11684073](http://www.uniprot.org/citations/11684073), PubMed: [12297301](http://www.uniprot.org/citations/12297301), PubMed: [14623880](http://www.uniprot.org/citations/14623880), PubMed: [34997220](http://www.uniprot.org/citations/34997220)). Modulates channel density, inactivation kinetics and rate of recovery from inactivation in a calcium-dependent and isoform- specific manner (PubMed: [10676964](http://www.uniprot.org/citations/10676964), PubMed: [11287421](http://www.uniprot.org/citations/11287421), PubMed: [11684073](http://www.uniprot.org/citations/11684073), PubMed: [12297301](http://www.uniprot.org/citations/12297301), PubMed: [14623880](http://www.uniprot.org/citations/14623880), PubMed: [34997220](http://www.uniprot.org/citations/34997220)). Involved in KCND2 and KCND3 trafficking to the cell surface (PubMed:

href="http://www.uniprot.org/citations/12829703" target="_blank">12829703). May be required for the expression of I(To) currents in the heart (By similarity).

Cellular Location

[Isoform 1]: Cell membrane {ECO:0000250|UniProtKB:Q9JM59}; Lipid-anchor {ECO:0000250|UniProtKB:Q9JM59}. Note=Detected on lipid rafts (By similarity). {ECO:0000250|UniProtKB:Q9JM59} [Isoform 6]: Cell membrane {ECO:0000250|UniProtKB:Q9JM59}; Lipid-anchor {ECO:0000250|UniProtKB:Q9JM59}

Tissue Location

Expressed in brain. Colocalizes with KCND2 in excitatory neurons including cortical and hippocampal CA1 pyramidal cells. Isoform 3 is expressed in heart and in umbilical vein endothelial cells. Not expressed in fetal heart

KCNIP2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

KCNIP2 Antibody (N-term) Blocking Peptide - Images

KCNIP2 Antibody (N-term) Blocking Peptide - Background

This gene encodes a member of the family of voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belong to the recoverin branch of the EF-hand superfamily. Members of the KCNIP family are small calcium binding proteins. They all have EF-hand-like domains, and differ from each other in the N-terminus. They are integral subunit components of native Kv4 channel complexes. They may regulate A-type currents, and hence neuronal excitability, in response to changes in intracellular calcium. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified from this gene. [provided by RefSeq].

KCNIP2 Antibody (N-term) Blocking Peptide - References

Foeger, N.C., et al. J. Biol. Chem. 285(43):33413-33422(2010) Lundby, A., et al. Br. J. Pharmacol. 160(8):2028-2044(2010) Levy, D.I., et al. J. Physiol. (Lond.) 588 (PT 14), 2657-2668 (2010) :Cotella, D., et al. Pflugers Arch. 460(1):87-97(2010) Tan, X.Q., et al. Zhonghua Xin Xue Guan Bing Za Zhi 37(6):509-513(2009)