

**KChIP1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP1571a****Specification**

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**KChIP1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9NZI2](#)**KChIP1 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 30820

**Other Names**

Kv channel-interacting protein 1, KChIP1, A-type potassium channel modulatory protein 1, Potassium channel-interacting protein 1, Vesicle APC-binding protein, KCNIP1, KCHIP1, VABP

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1571a](/product/products/AP1571a) was selected from the N-term region of human KChIP1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**KChIP1 Antibody (N-term) Blocking Peptide - Protein Information**Name KCNIP1 ([HGNC:15521](#))**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: [11423117](http://www.uniprot.org/citations/11423117), PubMed: [17187064](http://www.uniprot.org/citations/17187064), PubMed: [34552243](http://www.uniprot.org/citations/34552243), PubMed: [34997220](http://www.uniprot.org/citations/34997220)). Regulates 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: [11423117](http://www.uniprot.org/citations/11423117), PubMed: [17187064](http://www.uniprot.org/citations/17187064), PubMed: [34552243](http://www.uniprot.org/citations/34552243), PubMed: [34997220](http://www.uniprot.org/citations/34997220)).

[34552243](http://www.uniprot.org/citations/34552243), PubMed: [34997220](http://www.uniprot.org/citations/34997220)). In vitro, modulates KCND1/Kv4.1 and KCND2/Kv4.2 currents (PubMed: [34552243](http://www.uniprot.org/citations/34552243)). Increases the presence of KCND2 at the cell surface (PubMed: [12829703](http://www.uniprot.org/citations/12829703)).

**Cellular Location**

Cell membrane; Peripheral membrane protein. Cytoplasm. Cell projection, dendrite {ECO:0000250|UniProtKB:Q8R426}

**Tissue Location**

Isoform 1 and isoform 2 are expressed in brain and kidney. Isoform 1 is also expressed in liver, pancreas, skeletal muscle, small intestine and testis. Isoform 2 is also expressed in lung, pancreas, leukocytes, prostate and thymus

**KChIP1 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**KChIP1 Antibody (N-term) Blocking Peptide - Images****KChIP1 Antibody (N-term) Blocking Peptide - Background**

KChIP1 is 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.

**KChIP1 Antibody (N-term) Blocking Peptide - References**

Bahring, R., et al., J. Biol. Chem. 276(26):23888-23894 (2001). An, W.F., et al., Nature 403(6769):553-556 (2000).