

**KCNIP4 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16773a****Specification**

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**KCNIP4 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q6PIL6](#)**KCNIP4 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 80333**Other Names**

Kv channel-interacting protein 4, KCHIP4, A-type potassium channel modulatory protein 4, Calsenilin-like protein, Potassium channel-interacting protein 4, KCNIP4, CALP, KCHIP4

**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.

**KCNIP4 Antibody (N-term) Blocking Peptide - Protein Information****Name** KCNIP4**Synonyms** CALP, KCHIP4**Function**

Regulatory subunit of Kv4/D (Shal)-type voltage-gated rapidly inactivating A-type potassium channels. Modulates KCND2 channel density, inactivation kinetics and rate of recovery from inactivation in a calcium-dependent and isoform-specific manner (PubMed: [11847232](http://www.uniprot.org/citations/11847232), PubMed: [18957440](http://www.uniprot.org/citations/18957440), PubMed: [23576435](http://www.uniprot.org/citations/23576435)). Modulates KCND3/Kv4.3 currents (PubMed: [23576435](http://www.uniprot.org/citations/23576435)). Isoform 4 does not increase KCND2 expression at the cell membrane (PubMed: [18957440](http://www.uniprot.org/citations/18957440)). Isoform 4 retains KCND3 in the endoplasmic reticulum and negatively regulates its expression at the cell membrane.

**Cellular Location**

Cell membrane; Peripheral membrane protein. Cytoplasm. Peroxisome

**Tissue Location**

Predominantly expressed in brain.

**KCNIP4 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**KCNIP4 Antibody (N-term) Blocking Peptide - Images****KCNIP4 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. This protein member also interacts with presenilin. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene.

**KCNIP4 Antibody (N-term) Blocking Peptide - References**

Horinouchi, M., et al. *Pediatr Hematol Oncol* 27(5):344-354(2010) Rose, J.E., et al. *Mol. Med.* 16(7-8), 247-253 (2010) :Lin, L., et al. *Mol. Cell. Neurosci.* 43(3):315-325(2010) Ding, H., et al. *Stroke* 41(1):177-180(2010) Trynka, G., et al. *Gut* 58(8):1078-1083(2009)