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KCNIP4 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP16773A

Specification

KCNIP4 Antibody (N-term) - Product Information

Application	**WB,E**
Primary Accession	Q6PIL6
Other Accession	Q8HYN7, NP_001030176.1, NP_079497.2
Reactivity	**Human, Mouse**
Predicted	**Monkey**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**28729**
Antigen Region	**10-39**

KCNIP4 Antibody (N-term) - 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

Target/Specificity
This KCNIP4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 10-39 amino acids from the N-terminal region of human KCNIP4.

Dilution
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
KCNIP4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

KCNIP4 Antibody (N-term) - 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, PubMed:18957440, PubMed:23576435). Modulates KCND3/Kv4.3 currents (PubMed:23576435). Isoform 4 does not increase KCND2 expression at the cell membrane (PubMed: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

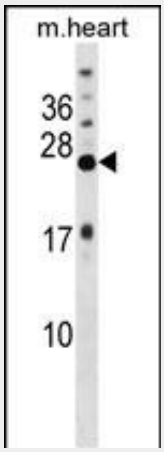
Tissue Location
Predominantly expressed in brain.

KCNIP4 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KCNIP4 Antibody (N-term) - Images



KCNIP4 Antibody (N-term) (Cat. #AP16773a) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the KCNIP4 antibody detected the KCNIP4 protein (arrow).

KCNIP4 Antibody (N-term) - 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) - 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)