



Rabbit Anti-KCNIP4 antibody

SL14646R

Product Name:	KCNIP4
Chinese Name:	A型钾离子通道调节蛋白4抗体
Alias:	A type potassium channel modulatory protein 4; a-type potassium channel modulatory protein 4; CALP; calsenilin like protein; Calsenilin-like protein; HGNC:30083; KCHIP 4; KCHIP4; KCIP4_HUMAN; KCNIP 4; Kcnip4; Kv channel interacting protein 4; Kv channel-interacting protein 4; MGC44947; Potassium channel interacting protein 4; Potassium channel-interacting protein 4.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	29kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human KCNIP4:41-140/250
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. [provided by RefSeq, Jul 2008]

Function:

Regulatory subunit of Kv4/D (Shal)-type voltage-gated rapidly inactivating A-type potassium channels. Probably modulates channels density, inactivation kinetics and rate of recovery from inactivation in a calcium-dependent and isoform-specific manner. In vitro, modulates KCND2/Kv4.2 and KCND3/Kv4.3 currents.

Subcellular Location:

Cell membrane.

Tissue Specificity:

Predominantly expressed in brain.

Similarity:

Belongs to the recoverin family.
Contains 4 EF-hand domains.

SWISS:

Q6PIL6

Gene ID:

80333

Database links:

[Entrez Gene: 614299](#) Cow

[Entrez Gene: 80333](#) Human

[Entrez Gene: 80334](#) Mouse

[Entrez Gene: 259243](#) Rat

[Omim: 608182](#) Human

[SwissProt: Q2KI69](#) Cow

[SwissProt: Q6PIL6](#) Human

[SwissProt: Q6PHZ8](#) Mouse

[SwissProt: Q99MG9](#) Rat

[Unigene: 655705](#) Human

[Unigene: 160172](#) Mouse

[Unigene: 205864](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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