KCNIP4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	KCNIP4, Polyclonal Antibody
Full Product Name	KCNIP4 Antibody; Biotin conjugated
Product Gene Name	anti-KCNIP4 antibody
Product Synonym Names	Kv channel-interacting protein 4; KChIP41; A-type potassium channel modulatory protein 4; Calsenilin-like protein1; KCNIP4; CALP; KCHIP4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%,Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.
Matching Pairs	Unconjugated Antibody: KCNIP4 (MBS7005654) Biotin Conjugated Antibody: KCNIP4 (MBS7001215)
Molecular Weight	26,267 Da
OMIM	608182
3D Structure	ModBase 3D Structure for Q6PIL6
Immunogen	Recombinant human Kv channel-interacting protein 4 protein
Conjugation	Biotin
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-46381 / sc-46380 / sc-98794
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-KCNIP4 antibody	ELISA (EIA)
Related Product Information for anti-KCNIP4 antibody	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.
Other Notes	Small volumes of anti-KCNIP4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for KCNIP4 purchase	MBS7001215 is an antibody targeting KCNIP4. Also known as KCNIP4 Antibody; Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KCNIP4. It may not necessarily be applicable to this product.

NCBI GI #	78190486
NCBI GeneID	80333
NCBI Accession #	NP_001030175.1
UniProt Primary Accession #	Q6PIL6
UniProt Secondary Accession #	Q3YAB8; Q3YAB9; Q3YAC0; Q3YAC1; Q3YAC2; Q4W5G8; Q8NEU0; Q9BWT2; Q9H294; Q9H2A4
UniProt Related Accession #	Q6PIL6
GenBank Nucleotide #	NM_001035003.1
NCBI Official Full Name	Kv channel-interacting protein 4 isoform 5
NCBI Official Synonym Full Names	potassium voltage-gated channel interacting protein 4
NCBI Official Symbol	KCNIP4
NCBI Official Synonym Symbols	CALP; KCHIP4
UniProt Protein Name	Kv channel-interacting protein 4
UniProt Synonym Protein Names	A-type potassium channel modulatory protein 4; Calsenilin-like protein
Protein Family	Kv channel-interacting protein
UniProt Gene Name	KCNIP4
UniProt Synonym Gene Names	CALP; KCHIP4; KChIP4
UniProt Entry Name	KCIP4_HUMAN
NCBI Protein Information	Kv channel-interacting protein 4
NCBI Summary for KCNIP4	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]
UniProt Comments for KCNIP4	KCNIP4: 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. Belongs to the recoverin family. 5 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 4p15.32 Cellular Component: cytoplasm; cytosol; endoplasmic reticulum; plasma membrane; voltage-gated potassium channel complex Molecular Function: calcium ion binding; potassium channel activity; potassium channel regulator activity; voltage-gated ion channel activity
Research Articles on KCNIP4	**1.** Subunit counting by single-molecule imaging revealed that the bound number of KChIP4 in each Kv4.2.KChIP4 complex was dependent on the expression level of KChIP4.
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