

Product datasheet for TA328987

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Kcnip3 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: WB

Reactivity: WB: 1:200-1:2000

Human, Mouse, Rat

Host: Rabbit
Clonality: Polyclonal

Immunogen: Peptide (C)SKREGIKWQRPR, corresponding to amino acid residues 18-31 of rat KChIP3.

Cytoplasmic, N-terminus.

Formulation: Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to

CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate

buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN3.

Reconstitution Method: Add 50 ul double distilled water (DDW) to the lyophilized powder.

Purification: Affinity purified on immobilized antigen.

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Gene Name: potassium voltage-gated channel interacting protein 3

Database Link: NP 115851

Entrez Gene 30818 HumanEntrez Gene 56461 MouseEntrez Gene 65199 Rat

Q9JM47



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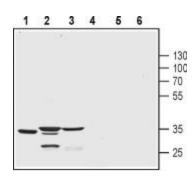
Background:

Voltage gate K+ (KV) channels form functional entities by the assembly of four a subunits and auxiliary subunits. Various auxiliary subunits are known to interact with KV channels thereby modulating various properties such as gating, activation and inactivation of the channels as well as influence the trafficking of the channels to the cellâ??s plasma membrane. KChIPs (KV Channel Interacting Proteins) are cytoplasmic proteins which belong to the neural Ca2+ sensor (NCS) family of Ca2+ binding EF-hand proteins. To date, KChIP1-4 have been identified. All four KChIPs have a conserved C-terminal domain, which has four EF-hand-like Ca2+ binding motifs. The N-terminal region is differs among the various KChIPs and attributes different properties regarding the regulation of KV channels1. KChIPs regulate different properties of KV channels such as their cell surface expression (mediated by proper trafficking of the various subunits), channel assembly and gating. Specifically, KChIP2, 3 and 4 strongly regulate the activity of the KV4 channel family in cortical pyramidal neurons5. Furthermore, KChIP knockout mice display an increase in anxiety-like behavior compared to their wild type counterparts.KChIP1, 3, and 4 are mostly expressed in the brain while KChIP2 is expressed in the heart and in the brain.

Synonyms:

calsenilin; CSEN; DREAM; KCHIP3; MGC18289

Product images:



Western blot analysis of human T-cell lymphoma Jurkat cell lysates (lanes 1 and 4), mouse heart lysate (lanes 2 and 5) and rat brain lysates (lanes 3 and 6): 1-3. Anti-KChIP3 antibody, (1:200). 4-6. Anti-KChiP3 antibody, preincubated with the control peptide antigen