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Product datasheet for TA328986

Kcnip1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)SLQTKQRRPSKD, corresponding to amino acid residues 10-21 of rat KChIP1 . N-terminal part.
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, 0.025% 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 1
Database Link:	<u>NP_075218</u> Entrez Gene 30820 HumanEntrez Gene 70357 MouseEntrez Gene 65023 Rat <u>Q8R426</u>



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GRIGENE Kcnip1 Rabbit Polyclonal Antibody – TA328986

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, KChIP1 strongly regulates the activity of the KV4 channel family1. KChIP1 has also been found to assist GABAmediated IPSCs (inhibitory postsynaptic currents) by increasing the release of presynaptic transmitter5. 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 brain4-6.

Synonyms: KCHIP1; MGC95; VABP

Product images:



Western blot analysis of rat brain lysate: 1. Anti-KChIP1 antibody, (1:200). 2. Anti-KChIP1 antibody, preincubated with the control peptide antigen.

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