Overview

Product name: Anti-KCNC1 antibody
Description: Rabbit polyclonal to KCNC1
Host species: Rabbit
Tested applications: Suitable for: ELISA, WB
Species reactivity: Reacts with: Human
Predicted to work with: Mouse, Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Cat, Dog
Immunogen: A region within a synthetic peptide: LAEPDAHSHF DYDPRADEFF FDRHPGVFAH
ILNYRRTGKL HCPADVCGPL, corresponding to N terminal amino acids 37-86 of Human KCNC1
Positive control: HepG2 cell lysate.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservative: 0.09% Sodium azide
Constituents: 2% Sucrose, PBS
Purity: Protein A purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab65535 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<td>ELISA</td>
<td>Use at an assay dependent concentration. ELISA titre using peptide based assay: 1/1562500.</td>
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Function
Mediates the voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient. Can form functional homotetrameric channels and heterotetrameric channels that contain variable proportions of KCNC2, and possibly other family members as well. Contributes to fire sustained trains of very brief action potentials at high frequency in pallidal neurons.

Involvement in disease
Epilepsy, progressive myoclonic 7

Sequence similarities
Belongs to the potassium channel family. C (Shaw) (TC 1.A.1.2) subfamily. Kv3.1/KCNC1 sub-subfamily.

Domain
The segment S4 is probably the voltage-sensor and is characterized by a series of positively charged amino acids at every third position. The tail may be important in modulation of channel activity and/or targeting of the channel to specific subcellular compartments.

Cellular localization
Cell membrane.

Images
Anti-KCNC1 antibody (ab65535) at 2.5 µg/ml + HepG2 cell lysate at 10 µg

Secondary
HRP conjugated anti-Rabbit IgG at 1/50000 dilution

Predicted band size: 58 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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