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KCNK13 antibody - C-terminal region

Rabbit Polyclonal Antibody Catalog # AI12026

Product Information

Application WB
Primary Accession Q9HB14

Other Accession NM_022054, NP_071337
Reactivity Human, Dog, Horse, Bovine

Predicted Human, Dog Host Rabbit Clonality Polyclonal Calculated MW 45391

Additional Information

Gene ID 56659

Alias Symbol THIK1, THIK-1, K2p13.1

Other Names Potassium channel subfamily K member 13, Tandem pore domain

halothane-inhibited potassium channel 1, THIK-1, KCNK13

Format Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium

azide and 2% sucrose.

Reconstitution & Storage Add 100 ul of distilled water. Final anti-KCNK13 antibody concentration is 1

mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at

20°C. Avoid repeat freeze-thaw cycles.

Precautions KCNK13 antibody - C-terminal region is for research use only and not for use

in diagnostic or therapeutic procedures.

Protein Information

Name KCNK13 {ECO:0000303 | PubMed:24163367,

ECO:0000312 | HGNC:HGNC:6275}

Function K(+) channel that conducts outward rectifying tonic currents potentiated by

purinergic signals (PubMed:<u>24163367</u>, PubMed:<u>25148687</u>, PubMed:<u>30472253</u>, PubMed:<u>38409076</u>). Homo- and heterodimerizes to form functional channels

with distinct regulatory and gating properties (PubMed:25148687). Contributes most of K(+) currents at the plasma membrane of resting microglia. Maintains a depolarized membrane potential required for proper ramified microglia morphology and phagocytosis, selectively mediating microglial pruning of presynaptic compartments at hippocampal excitatory synapses (PubMed:38409076). Upon local release of ATP caused by neuronal

injury or infection, it is potentiated by P2RY12 and P2RX7 receptor signaling and contributes to ATP-triggered K(+) efflux underlying microglial NLRP3 inflammasome assembly and IL1B release (By similarity) (PubMed: 38409076).

Cellular Location Cell membrane; Multi-pass membrane protein

Tissue Location Expressed in microglia (at protein level).

References

Rajan, S., et al., (2001) J. Biol. Chem. 276(10), 7302-7311 Reconstitution and Storage: For short termuse, store at 2-8 Cup to 1 week. For long terms to rage, store at 2-20 Cinsmall aliquots to prevent freeze-thaw cycles.

Images



WB Suggested Anti-KCNK13 Antibody Titration: 1.25µg/ml

ELISA Titer: 1:312500

Positive Control: Jurkat cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.