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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

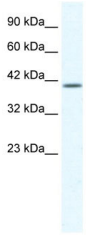
Name	KCNK13 {ECO:0000303|PubMed:24163367, ECO:0000312|HGNC:HGNC:6275}
Function	K(+) channel that conducts outward rectifying tonic currents potentiated by purinergic signals (PubMed:24163367, PubMed:25148687, PubMed:30472253, PubMed:38409076). Homo- and heterodimerizes to form functional channels with distinct regulatory and gating properties (PubMed:25148687, PubMed:40011745, PubMed:40011746, PubMed:40307591, PubMed:40178898). Contributes most of K(+) currents at the plasma membrane of resting microglia (PubMed:38409076). 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 (PubMed:38409076).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in microglia (at protein level).

References

Rajan,S.,etal.,(2001)J.Biol.Chem.276(10),7302-7311ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.

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'.