

KCNK13 antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI10823

Product Information

| | |
|-------------------|---|
| Application | WB, IHC |
| Primary Accession | Q9HB14 |
| Other Accession | NM_022054 , NP_071337 |
| Reactivity | Human, Rat, Pig, Horse |
| Predicted | Human, Pig |
| 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 50 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

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|----------|--|
| 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). 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

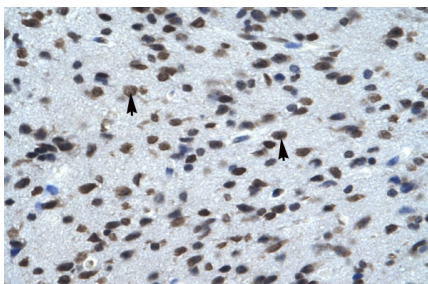
Tissue Location

Expressed in microglia (at protein level).

References

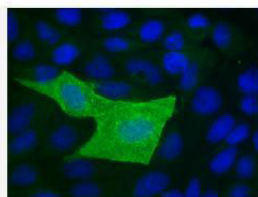
Rajan,S., et al., (2001) J. Biol. Chem. 276 (10), 7302-7311
Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.

Images



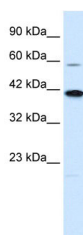
Rabbit Anti-Q9HB14 Antibody
Paraffin Embedded Tissue: Human Brain
Cellular Data: Neural Cells
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X

KCN13



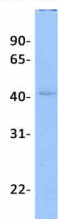
Blue:DAPI Green:KCN13

[See IHC 2 Data and Customer Feedback for more Information](#)



WB Suggested Anti-KCNK13 Antibody Titration: 0.12µg/ml
ELISA Titer: 1:1562500
Positive Control: Jurkat cell lysate

KCNK13



Rabbit Anti-KCNK13
Sample Type: 721_B
Antibody Concentration: 1µg/mL

Host: Rabbit
Target Name: KCNK13
Sample Tissue: 721_B
Antibody Dilution: 1.0µg/ml
KCNK13 is supported by BioGPS gene expression data to be expressed in 721_B

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