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# KCNK13 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10823

## Product Information

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|---|---|
| **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

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|---|---|
| **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, 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).

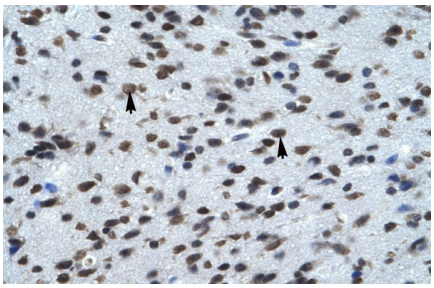
**Cellular Location** Cell membrane; Multi-pass membrane protein

**Tissue Location** Expressed in microglia (at protein level).

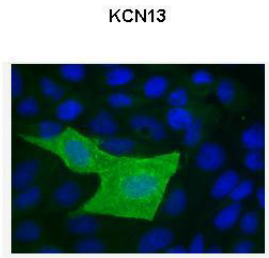
## References

Rajan,S., et al., (2001) J. Biol. Chem. 276 (10), 7302-7311Reconstitution 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.

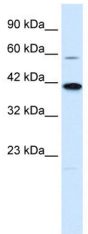
## Images



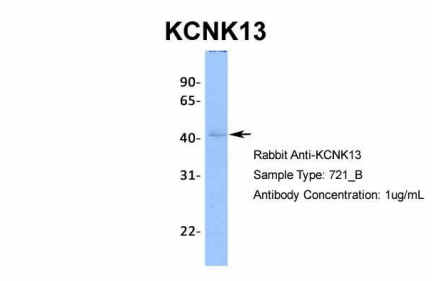
Rabbit Anti-Q9HB14 Antibody
Paraffin Embedded Tissue: Human Brain
Cellular Data: Neural Cells
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X




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




Host: Rabbit
Target Name: KCNK13
Sample Tissue: 721_B
Antibody Dilution: 1.0µg/mlKCNK13 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'.