

KCNK13 antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI10823**Specification****KCNK13 antibody - C-terminal region - Product Information**

Application	WB, IHC
Primary Accession	O9HB14
Other Accession	NM_022054 , NP_071337
Reactivity	Human, Rat, Pig, Horse
Predicted	Human, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45kDa kDa

KCNK13 antibody - C-terminal region - 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.

KCNK13 antibody - C-terminal region - 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). 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

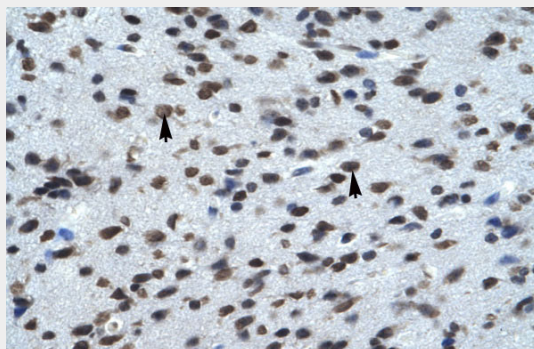
Expressed in microglia (at protein level).

KCNK13 antibody - C-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

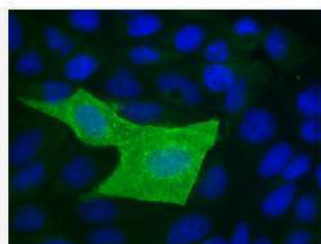
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KCNK13 antibody - C-terminal region - Images



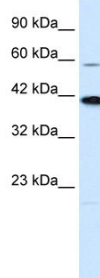
Rabbit Anti-Q9HB14 Antibody
Paraffin Embedded Tissue: Human Brain
Cellular Data: Neural Cells
Antibody Concentration: 4.0-8.0 µg/ml
Magnification: 400X

KCN13



Blue:DAPI Green:KCN13

See IHC 2 Data and Customer Feedback for more Information

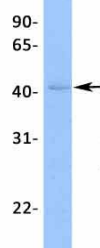


WB Suggested Anti-KCNK13 Antibody Titration: 0.12µg/ml

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

KCNK13 antibody - C-terminal region - 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.