

KCNK13 / THIK-1 Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS14829**Specification**

KCNK13 / THIK-1 Antibody (Internal) - Product Information

Application	IF, WB, IHC
Primary Accession	O9HB14
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45kDa KDa

KCNK13 / THIK-1 Antibody (Internal) - Additional Information**Gene ID** 56659**Other Names**

Potassium channel subfamily K member 13, Tandem pore domain halothane-inhibited potassium channel 1, THIK-1, KCNK13

Target/Specificity

Human KCNK13. KCNK13 antibody is predicted to not cross-react with other KCNK protein family members.

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

KCNK13 / THIK-1 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

KCNK13 / THIK-1 Antibody (Internal) - 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:<a

[38409076](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/38409076)>).

Cellular Location

Cell membrane; Multi-pass membrane protein

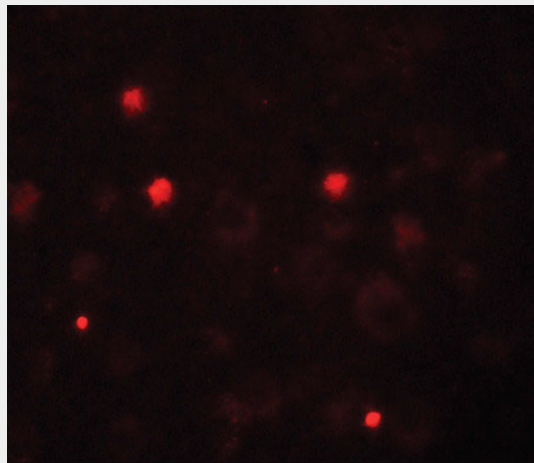
Tissue Location

Expressed in microglia (at protein level).

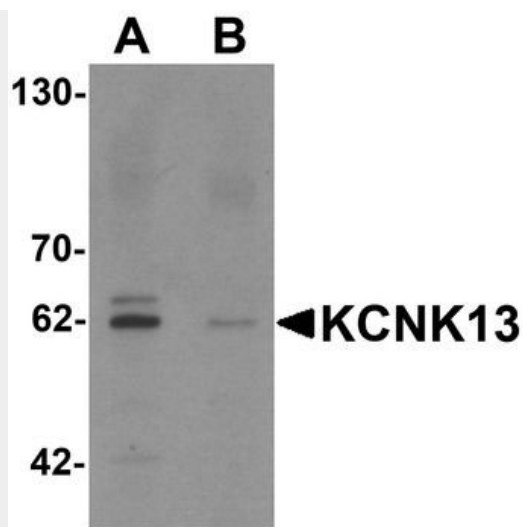
KCNK13 / THIK-1 Antibody (Internal) - Protocols

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

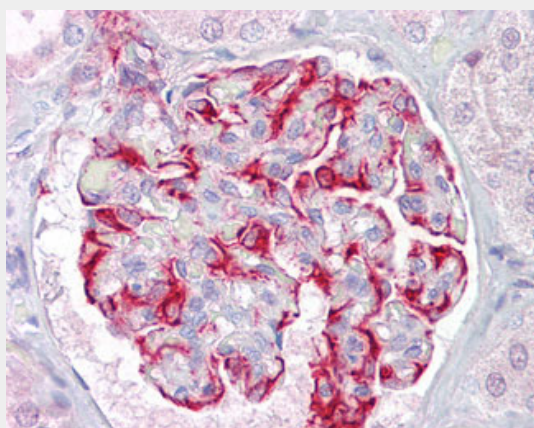
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KCNK13 / THIK-1 Antibody (Internal) - Images

Immunofluorescence of KCNK13 in human brain tissue with KCNK13 antibody at 20 ug/ml.



Western blot analysis of KCNK13 in rat brain tissue lysate with KCNK13 antibody at 0.5 ug/ml in...



Anti-KCNK13 antibody IHC of human kidney.

KCNK13 / THIK-1 Antibody (Internal) - Background

Potassium channel displaying weak inward rectification in symmetrical K(+) solution.

KCNK13 / THIK-1 Antibody (Internal) - References

- Rajan S.,et al.J. Biol. Chem. 276:7302-7311(2001).
 Gierten J.,et al.Br. J. Pharmacol. 154:1680-1690(2008).
 Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.