

KCNK18 / TRESK Antibody (Internal)

Rabbit Polyclonal Antibody Catalog # ALS13802

Specification

KCNK18 / TRESK Antibody (Internal) - Product Information

Application IF, WB Primary Accession O7Z418

Reactivity Human, Mouse, Rat

Host Rabbit
Clonality Polyclonal
Calculated MW 44kDa KDa

KCNK18 / TRESK Antibody (Internal) - Additional Information

Gene ID 338567

Other Names

Potassium channel subfamily K member 18, TWIK-related individual potassium channel, TWIK-related spinal cord potassium channel, KCNK18, TRESK, TRIK

Target/Specificity

Human KCNK18

Reconstitution & Storage

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

Precautions

KCNK18 / TRESK Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

KCNK18 / TRESK Antibody (Internal) - Protein Information

Name KCNK18

Synonyms TRESK, TRIK

Function

Outward rectifying potassium channel. Produces rapidly activating outward rectifier K(+) currents. May function as background potassium channel that sets the resting membrane potential. Channel activity is directly activated by calcium signal. Activated by the G(q)-protein coupled receptor pathway. The calcium signal robustly activates the channel via calcineurin, whereas the anchoring of 14-3- 3/YWHAH interferes with the return of the current to the resting state after activation. Inhibited also by arachidonic acid and other naturally occurring unsaturated free fatty acids. Channel activity is also enhanced by volatile anesthetics, such as isoflurane. Appears to be the primary target of hydroxy-alpha-sanshool, an ingredient of Schezuan pepper. May be involved in the somatosensory function with special respect to pain sensation (By similarity).



Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

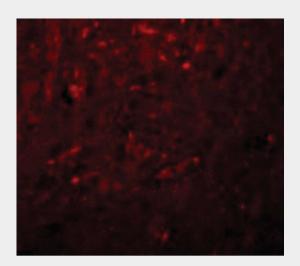
Expressed specifically in dorsal root ganglion and trigeminal ganglion neurons. Detected at low levels in spinal cord

KCNK18 / TRESK Antibody (Internal) - Protocols

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

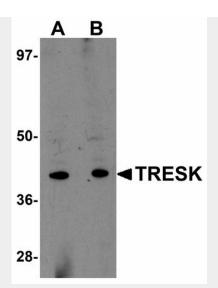
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KCNK18 / TRESK Antibody (Internal) - Images



Immunofluorescence of TRESK in Rat Brain cells with TRESK antibody at 20 ug/ml.





Western blot of TRESK in rat brain tissue lysate with TRESK antibody at (A) 1 and (B) 2 ug/ml.

KCNK18 / TRESK Antibody (Internal) - Background

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KCNK18 / TRESK Antibody (Internal) - References

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Liu C.,et al.Anesth. Analg. 99:1715-1722(2004).
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