

Product datasheet

Anti-KCNK18/TRESK antibody ab113883

2 Images

Overview

Product name	Anti-KCNK18/TRESK antibody
Description	Rabbit polyclonal to KCNK18/TRESK
Host species	Rabbit
Tested applications	Suitable for: WB, ELISA, IHC-P
Species reactivity	Reacts with: Rat, Human Predicted to work with: Mouse 
Immunogen	KLH conjugated synthetic peptide derived from internal sequence of Human KCNK18/TRESK.
Positive control	Human Heart tissue; Rat brain tissue lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: 99% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

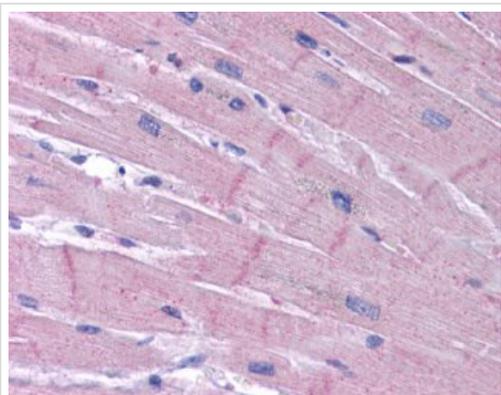
Our [Abpromise guarantee](#) covers the use of **ab113883** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 44 kDa.
ELISA		Use at an assay dependent concentration.

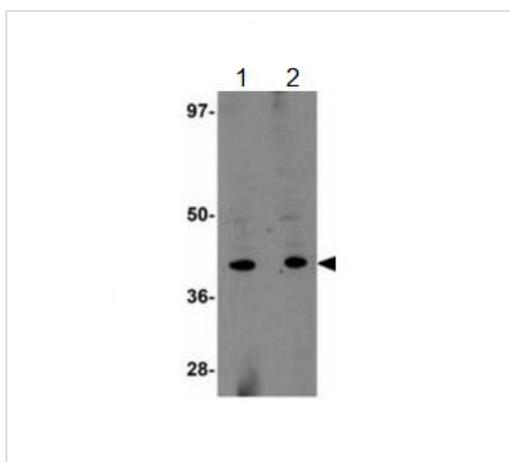
Application	Abreviews	Notes
IHC-P		Use a concentration of 5 µg/ml.
Target		
Function		Outward rectifying potassium channel. Produces rapidly activating outward rectifier K(+) currents. May function as background potassium channel that sets the resting membrane potential. Channel activity is directly 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.
Tissue specificity		Expressed specifically in dorsal root ganglion and trigeminal ganglion neurons. Detected at low levels in spinal cord.
Involvement in disease		Defects in KCNK18 are a cause of migraine with or without aura type 13 (MGR13) [MIM:613656]. A form of migraine trasmitted in an autosomal dominant pattern. Migraine is a disabling symptom complex of periodic headaches, usually temporal and unilateral. Headaches are often accompanied by irritability, nausea, vomiting and photobia, preceded by constriction of the cranial arteries. The two major subtypes are common migraine (migraine without aura) and classic migraine (migraine with aura). Classic migraine is characterized by recurrent attacks of reversible neurological symptoms (aura) that precede or accompany the headache. Aura may include a combination of sensory disturbances, such as blurred vision, hallucinations, vertigo, numbness and difficulty in concentrating and speaking. Note=Susceptibility to migraine has been shown to be conferred by a frameshift mutation that segregates with the disorder in a large multigenerational family. Migraine was associated with sensitivity to lights, sounds, and smells, as well as nausea and occasional vomiting. Triggers included fatigue, alcohol and bright lights. Mutations in KCNK18 are a rare cause of migraine.
Sequence similarities		Belongs to the two pore domain potassium channel (TC 1.A.1.8) family.
Post-translational modifications		Phosphorylation of Ser-252 is required for the binding of 14-3-3beta/YWHAH. Calcineurin-mediated dephosphorylation of Ser-264 enhances channel activity. N-glycosylated.
Cellular localization		Cell membrane.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KCNK18/TRESK antibody (ab113883)

ab113883, at 5 µg/ml, staining KCNK18/TRESK in formalin-fixed, paraffin-embedded Human heart tissue by Immunohistochemistry.



Western blot - Anti-KCNK18/TRESK antibody (ab113883)

Lane 1 : Anti-KCNK18/TRESK antibody (ab113883) at 1 µg/ml

Lane 2 : Anti-KCNK18/TRESK antibody (ab113883) at 2 µg/ml

All lanes : Rat brain tissue lysate

Predicted band size: 44 kDa

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