



TWIK-1 Monoclonal Antibody

Catalog No	YP-mAb-16506
Isotype	IgG
Reactivity	Human;Rat
Applications	WB
Gene Name	KCNK1
Protein Name	Potassium channel subfamily K member 1
Immunogen	The antiserum was produced against synthesized peptide derived from human KCNK1. AA range:287-336
Specificity	TWIK-1 Monoclonal Antibody detects endogenous levels of TWIK-1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	KCNK1; HOHO1; KCNO1; TWIK1; Potassium channel subfamily K member 1; Inward rectifying potassium channel protein TWIK-1; Potassium channel KCNO1
Observed Band	38kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein . Recycling endosome . Cell junction, synapse, synaptic cell membrane . Cytoplasmic vesicle . Perikaryon . Cell projection, dendrite . Cell projection . Apical cell membrane ; Multi-pass membrane protein . The heterodimer with KCNK2 is detected at the astrocyte cell membrane. Not detected at the astrocyte cell membrane when KCNK2 is absent. Detected on neuronal cell bodies, and to a lesser degree on neuronal cell projections. Detected on hippocampus dentate gyrus granule cell bodies and to a lesser degree on proximal dendrites. Detected at the apical cell membrane in stria vascularis in the cochlea. Detected at the apical cell membrane of vestibular dark cells situated between the crista and the utricle in the inner ear. Detected at the apical ce
Tissue Specificity	Detected in bronchial epithelial cells (PubMed:21964404). Detected in heart left atrium and left ventricle (PubMed:17478540). Detected in cardiac myocytes (at protein level) (PubMed:21653227). Widely expressed with high levels in heart, brain and kidney, and lower levels in colon, ovary, placenta, lung and liver (PubMed:8605869, PubMed:9362344). Highly expressed in cerebellum, and detected at lower levels in amygdala, caudate nucleus, brain cortex, hippocampus, putamen, substantia nigra, thalamus, dorsal root ganglion, spinal



cord, pituitary, heart, kidney, lung, placenta, pancreas, stomach, small intestine, uterus and prostate (PubMed:11165377). Detected in right and left heart ventricle and atrium, and in heart Purkinje fibers (PubMed:17478540). Detected in bronchial epithelial cells (Pu

Function

function:Weakly inward rectifying potassium channel.,miscellaneous:Inhibited by barium, quinine, quinidine and internal acidification. Activated by protein kinase C.,similarity:Belongs to the two pore domain potassium channel (TC 1.A.1.8) family.,subunit:Homodimer .,tissue specificity:Widely expressed with high levels in heart and brain and lower levels in placenta, lung, liver and kidney.,

Background

This gene encodes one of the members of the superfamily of potassium channel proteins containing two pore-forming P domains. The product of this gene has not been shown to be a functional channel, however, it may require other non-pore-forming proteins for activity. [provided by RefSeq, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

Western Blot analysis of various cells using TWIK-1 Monoclonal Antibody

