

## TWIK-1 Polyclonal Antibody

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| <b>Catalog No :</b>          | YT4786  |
| <b>Reactivity :</b>          | Human;Rat   |
| <b>Applications :</b>        | WB;ELISA  |
| <b>Target :</b>              | TWIK-1  |
| <b>Gene Name :</b>           | KCNK1   |
| <b>Protein Name :</b>        | Potassium channel subfamily K member 1  |
| <b>Human Gene Id :</b>       | 3775  |
| <b>Human Swiss Prot No :</b> | O00180  |
| <b>Mouse Swiss Prot No :</b> | O08581  |
| <b>Rat Gene Id :</b>         | 59324   |
| <b>Rat Swiss Prot No :</b>   | Q9Z2T2  |
| <b>Immunogen :</b>           | The antiserum was produced against synthesized peptide derived from human KCNK1. AA range:287-336                     |
| <b>Specificity :</b>         | TWIK-1 Polyclonal Antibody detects endogenous levels of TWIK-1 protein.   |
| <b>Formulation :</b>         | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.   |
| <b>Source :</b>              | Polyclonal, Rabbit,IgG  |
| <b>Dilution :</b>            | WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.  |
| <b>Purification :</b>        | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| <b>Concentration :</b>       | 1 mg/ml   |

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**Storage Stability :** -15°C to -25°C/1 year (Do not lower than -25°C)

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**Observed Band :** 38kD

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**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],

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**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.,

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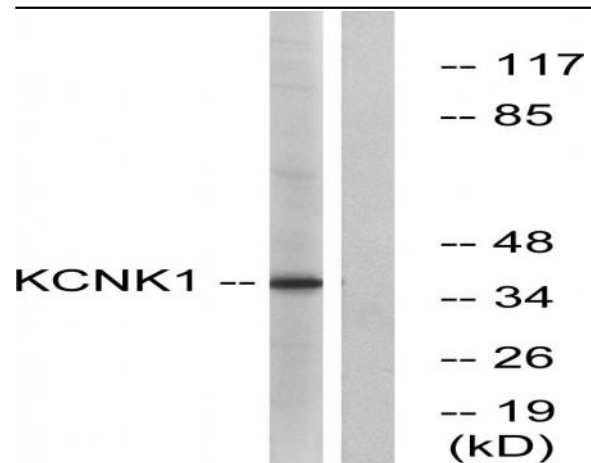
**Subcellular Location :** Cell membrane ; Multi-pass membrane protein . Recycling endosome . Cell junction, synapse, synaptic cell membrane . Cytoplasmic vesicle . Perikaryon . Cell projection, dendrite . Cell projection . Apical cell membrane ; Multi-pass membrane protein . The heterodimer with KCNK2 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

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**Expression :** 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

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## Products Images



Western blot analysis of lysates from Jurkat cells, using KCNK1 Antibody. The lane on the right is blocked with the synthesized peptide.