

Product datasheet for **AP01494PU-S**

KCNK1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western Blot: 1/500-1/1000.
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of TWIK-1 protein. (region surrounding Val322)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 with 0.05% Sodium Azide as preservative State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE)
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~38 kDa
Gene Name:	potassium two pore domain channel subfamily K member 1
Database Link:	Entrez Gene 3775 Human O00180



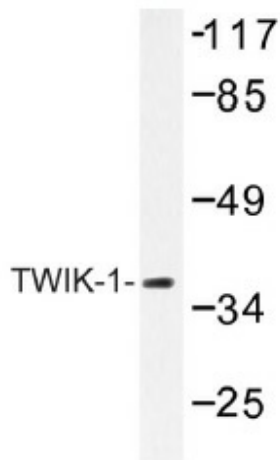
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Background:

K⁺ channels are divided into three subclasses, reflecting the number of transmembrane segments (TMS), which are designated 6TMS, 4TMS and 2TMS. Members of the 4TMS class contain two distinct pore regions, and include TASK, TREK, TRAAK and TWIK. TWIK-1 mRNA is expressed abundantly in brain and at lower levels in lung, kidney and skeletal muscle. The molecular weight of TWIK-1 in mouse brain is 40 kDa under reducing conditions. TWIK-2 shares low sequence homology with other mammalian family group members, and only 34% homology with TWIK-1. Human TWIK-2 is expressed in pancreas, placenta and heart, while mouse TWIK-2 is expressed in liver. TWIK-2 is inhibited by intracellular, but not extracellular, acidification.

Synonyms:

KCNK1, HOHO1, KCNO1, TWIK1, Potassium channel subfamily K member 1, Potassium channel KCNO1

Product images:

Western blot (WB) analysis of TWIK-1 antibody (Cat.-no.: [AP01494PU-N]) in extracts from Jurkat cells.