

## Product datasheet for **TA328631**

### KCNK6 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)ESHQQLSASSHTDYASIPR, corresponding to residues 295-313 of human K2P6.1 (TWIK-2).Intracellular, C-terminus.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 5% sucrose, 0.025% NaN <sub>3</sub> .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	potassium two pore domain channel subfamily K member 6
Database Link:	<a href="#">NP_004814</a> <a href="#">Entrez Gene 9424 Human</a> <a href="#">Q9Y257</a>



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**Background:**

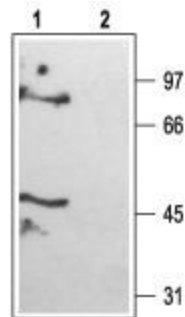
K2P6.1 (also named Tandem of P domain of Weak Inward rectifier K<sup>+</sup> channel 2, TWIK-2 or KCNK6) is a member of the 2-pore (2P) domain K<sup>+</sup> channel family that includes at least 16 members. These channels show little time or voltage dependence and are considered to be "leak" or "background" K<sup>+</sup> channels, thereby generating background currents which help set the membrane resting potential and cell excitation. The K2P channels have a signature topology that includes four transmembrane domains and two pore domains with intracellular N- and C termini. The functional channel is believed to be a dimer. K2P channels are regulated by diverse physical and chemical stimuli including temperature, changes in intracellular pH, mechanical stretch, inhalation anesthetics, etc. The channels can then be subclassified based in their specific activators. K2P6.1 displays low single channel conductance of about 5pS and is partially activated by arachidonic acid and blocked by volatile anesthetics. K2P6.1 expression is widespread, especially in the rat were it is expressed in brain, heart, kidney and liver. In humans K2P6.1 expression is more restricted with expression in aorta, stomach, placenta and spleen while in mouse, K2P6.1 expression has been detected only in liver.

**Synonyms:**

K2p6.1; KCNK8; TOSS; TWIK-2; TWIK2

**Protein Families:**

Druggable Genome, Ion Channels: Potassium, Transmembrane

**Product images:**

Western blot analysis of rat brain membranes: 1. Anti-K2P6.1 (TWIK-2) antibody, (1:200). 2. Anti-K2P6.1 (TWIK-2) antibody, preincubated with the control peptide antigen.