

**KCNK6 Antibody(C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP19580b****Specification**

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**KCNK6 Antibody(C-term) Blocking peptide - Product Information**Primary Accession [Q9Y257](#)**KCNK6 Antibody(C-term) Blocking peptide - Additional Information**

Gene ID 9424

**Other Names**

Potassium channel subfamily K member 6, Inward rectifying potassium channel protein TWIK-2, TWIK-originated similarity sequence, KCNK6, TOSS, TWIK2

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**KCNK6 Antibody(C-term) Blocking peptide - Protein Information**Name KCNK6 ([HGNC:6281](#))**Function**

K(+) channel that conducts outward rectifying currents at the membranes of the endolysosomal system (PubMed:<a href="http://www.uniprot.org/citations/10887187" target="\_blank">10887187</a>, PubMed:<a href="http://www.uniprot.org/citations/28381826" target="\_blank">28381826</a>). Active in lysosomes where it regulates lysosome numbers and size (PubMed:<a href="http://www.uniprot.org/citations/28381826" target="\_blank">28381826</a>). In macrophages, enables K(+) efflux coupled to ATP-induced NLRP3 inflammasome activation upon bacterial infection. Cooperates with ATP-gated P2RX7 channels to activate NLRP3 inflammasome, with P2RX7 conducting Ca(2+) and Na(+) influx that sets the membrane potential for K(+) efflux (By similarity).

**Cellular Location**

Late endosome membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein

**Tissue Location**

Widespread expression, detected in all tissues tested except for skeletal muscle. Strongest expression in placenta, pancreas, heart, colon and spleen, lower levels detected in peripheral

blood leukocytes, lung, liver, kidney and thymus. Lowest expression detected in brain.

### **KCNK6 Antibody(C-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

### **KCNK6 Antibody(C-term) Blocking peptide - Images**

### **KCNK6 Antibody(C-term) Blocking peptide - Background**

This gene encodes one of the members of the superfamily of potassium channel proteins containing two pore-forming P domains. This channel protein, considered an open rectifier, is widely expressed. It is stimulated by arachidonic acid, and inhibited by internal acidification and volatile anaesthetics. [provided by RefSeq].

### **KCNK6 Antibody(C-term) Blocking peptide - References**

Sebastiani, P., et al. Am. J. Hematol. 85(1):29-35(2010) Gierten, J., et al. Br. J. Pharmacol. 154(8):1680-1690(2008) Goldstein, S.A., et al. Pharmacol. Rev. 57(4):527-540(2005) Mhatre, A.N., et al. J. Neurosci. Res. 75(1):25-31(2004) Goldstein, S.A., et al. Nat. Rev. Neurosci. 2(3):175-184(2001)