

KCNK6 Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP19580b

Product Information

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| Application | WB, E |
| Primary Accession | Q9Y257 |
| Other Accession | NP_004814.1 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Clone Names | RB32356 |
| Calculated MW | 33747 |
| Antigen Region | 263-292 |

Additional Information

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| 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 |
| Target/Specificity | This KCNK6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 263-292 amino acids from the C-terminal region of human KCNK6. |
| Dilution | WB~~1:1000 E~~Use at an assay dependent concentration. |
| Format | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Precautions | KCNK6 Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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| Name | KCNK6 (HGNC:6281) |
| Function | K(+) channel that conducts outward rectifying currents at the membranes of the endolysosomal system (PubMed: 10887187 , PubMed: 28381826). Active in |

lysosomes where it regulates lysosome numbers and size (PubMed:[28381826](#)). 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.

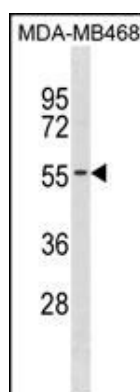
Background

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].

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)

Images



KCNK6 Antibody (C-term) (Cat. #AP19580b) western blot analysis in MDA-MB468 cell line lysates (35ug/lane). This demonstrates the KCNK6 antibody detected the KCNK6 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.