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KCNK10 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant KCNK10.
Catalog # AT2600a

Product Information

Application	WB, E
Primary Accession	P57789
Other Accession	NM_021161
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1C1
Calculated MW	59765

Additional Information

Gene ID	54207
Other Names	Potassium channel subfamily K member 10, Outward rectifying potassium channel protein TREK-2, TREK-2 K(+) channel subunit, KCNK10, TREK2
Target/Specificity	KCNK10 (NP_066984, 439 a.a. ~ 538 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	KCNK10 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

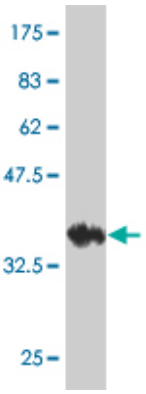
The protein encoded by this gene belongs to the family of potassium channel proteins containing two pore-forming P domains. This channel is an open rectifier which primarily passes outward current under physiological K+ concentrations, and is stimulated strongly by arachidonic acid and to a lesser degree by membrane stretching, intracellular acidification, and general anaesthetics. Several alternatively spliced transcript variants encoding different isoforms have been identified for this gene.

References

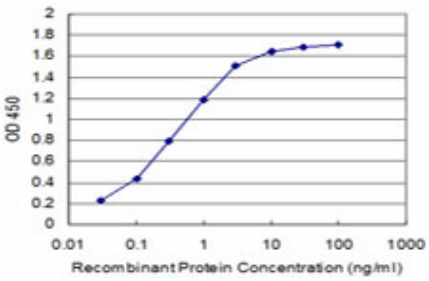
Regulation of two-pore-domain (K2P) potassium leak channels by the tyrosine kinase inhibitor genistein.

Gierten J, et al. Br J Pharmacol, 2008 Aug. PMID 18516069.Recent advance and possible future in TREK-2: a two-pore potassium channel may involved in the process of NPP, brain ischemia and memory impairment. Huang D, et al. Med Hypotheses, 2008. PMID 17689202.International Union of Pharmacology. LV. Nomenclature and molecular relationships of two-P potassium channels. Goldstein SA, et al. Pharmacol Rev, 2005 Dec. PMID 16382106.Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. Strausberg RL, et al. Proc Natl Acad Sci U S A, 2002 Dec 24. PMID 12477932.Expression pattern and functional characteristics of two novel splice variants of the two-pore-domain potassium channel TREK-2. Gu W, et al. J Physiol, 2002 Mar 15. PMID 11897838.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



Detection limit for recombinant GST tagged KCNK10 is approximately 0.1ng/ml as a capture antibody.