

KCNMB4 Antibody (monoclonal) (M01)

23949

Mouse monoclonal antibody raised against a full length recombinant KCNMB4. Catalog # AT2602a

Product Information

Application E

Primary Accession

Other Accession

Reactivity

Host

Clonality

Isotype

Clone Names

Q86W47

BC050621

Human

mouse

monoclonal

IgG1 kappa

1G7

Additional Information

Calculated MW

Gene ID 27345

Other Names Calcium-activated potassium channel subunit beta-4, BK channel subunit

beta-4, BKbeta4, Hbeta4, Calcium-activated potassium channel, subfamily M subunit beta-4, Charybdotoxin receptor subunit beta-4, K(VCA)beta-4, Maxi K

channel subunit beta-4, Slo-beta-4, KCNMB4

Target/Specificity KCNMB4 (AAH50621, 1 a.a. ~ 210 a.a) full-length recombinant protein with

GST tag. MW of the GST tag alone is 26 KDa.

Dilution 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 KCNMB4 Antibody (monoclonal) (M01) is for research use only and not for use

in diagnostic or therapeutic procedures.

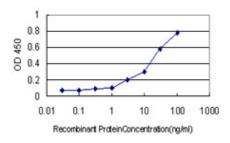
Background

MaxiK channels are large conductance, voltage and calcium-sensitive potassium channels which are fundamental to the control of smooth muscle tone and neuronal excitability. MaxiK channels can be formed by 2 subunits: the pore-forming alpha subunit and the modulatory beta subunit. The protein encoded by this gene is an auxiliary beta subunit which slows activation kinetics, leads to steeper calcium sensitivity, and shifts the voltage range of current activation to more negative potentials than does the beta 1 subunit.

References

Interactions between beta subunits of the KCNMB family and Slo3: beta4 selectively modulates Slo3 expression and function. Yang CT, et al. PLoS One, 2009 Jul 3. PMID 19578543.{beta} subunit-specific modulations of BK channel function by a mutation associated with epilepsy and dyskinesia. Lee US, et al. J Physiol, 2009 Apr 1. PMID 19204046.Identification of a BK channel auxiliary protein controlling molecular and behavioral tolerance to alcohol. Martin GE, et al. Proc Natl Acad Sci U S A, 2008 Nov 11. PMID 18981408.Structural basis for toxin resistance of beta4-associated calcium-activated potassium (BK) channels. Gan G, et al. J Biol Chem, 2008 Aug 29. PMID 18559348.Multicentre search for genetic susceptibility loci in sporadic epilepsy syndrome and seizure types: a case-control study. Cavalleri GL, et al. Lancet Neurol, 2007 Nov. PMID 17913586.

Images



Detection limit for recombinant GST tagged KCNMB4 is approximately 0.3ng/ml as a capture antibody.

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