

KCNMB4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant KCNMB4.

Catalog # AT2602a

Specification

KCNMB4 Antibody (monoclonal) (M01) - Product Information

Application	E
Primary Accession	Q86W47
Other Accession	BC050621
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 kappa
Calculated MW	23949

KCNMB4 Antibody (monoclonal) (M01) - Additional Information

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.

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.

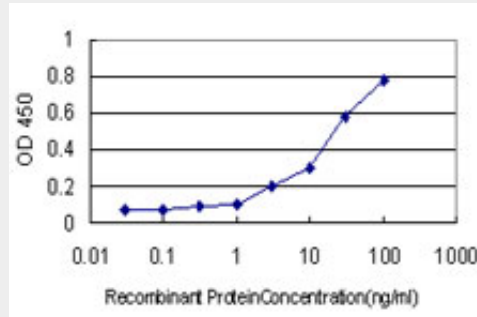
KCNMB4 Antibody (monoclonal) (M01) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)

- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KCNMB4 Antibody (monoclonal) (M01) - Images



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

KCNMB4 Antibody (monoclonal) (M01) - 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.

KCNMB4 Antibody (monoclonal) (M01) - 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.