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KCNMB1 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14747c

Specification

KCNMB1 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q16558
Other Accession	NP_004128.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**21797**
Antigen Region	**43-72**

KCNMB1 Antibody (Center) - Additional Information

Gene ID 3779

Other Names
Calcium-activated potassium channel subunit beta-1, BK channel subunit beta-1, BKbeta, BKbeta1, Hbeta1, Calcium-activated potassium channel, subfamily M subunit beta-1, Calcium-activated potassium channel subunit beta, Charybdotoxin receptor subunit beta-1, K(VCA)beta-1, Maxi K channel subunit beta-1, Slo-beta-1, Slo-beta, KCNMB1

Target/Specificity
This KCNMB1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 43-72 amino acids from the Central region of human KCNMB1.

Dilution
WB~~1:1000

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
KCNMB1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

KCNMB1 Antibody (Center) - Protein Information

Name KCNMB1

Function Regulatory subunit of the calcium activated potassium KCNMA1 (maxiK) channel. Modulates the calcium sensitivity and gating kinetics of KCNMA1, thereby contributing to KCNMA1 channel diversity. Increases the apparent Ca(2+)/voltage sensitivity of the KCNMA1 channel. It also modifies KCNMA1 channel kinetics and alters its pharmacological properties. It slows down the activation and the deactivation kinetics of the channel. Acts as a negative regulator of smooth muscle contraction by enhancing the calcium sensitivity to KCNMA1. Its presence is also a requirement for internal binding of the KCNMA1 channel opener dehydrosoyasaponin I (DHS-1) triterpene glycoside and for external binding of the agonist hormone 17-beta-estradiol (E2). Increases the binding activity of charybdotoxin (CTX) toxin to KCNMA1 peptide blocker by increasing the CTX association rate and decreasing the dissociation rate.

Cellular Location
Membrane; Multi-pass membrane protein.

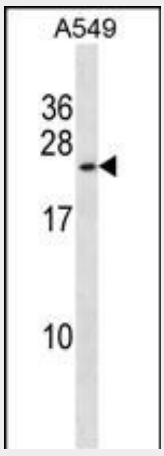
Tissue Location
Abundantly expressed in smooth muscle. Low levels of expression in most other tissues. Within the brain, relatively high levels found in hippocampus and corpus callosum

KCNMB1 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KCNMB1 Antibody (Center) - Images



KCNMB1 Antibody (Center) (Cat. #AP14747c) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the KCNMB1 antibody detected the KCNMB1 protein (arrow).

KCNMB1 Antibody (Center) - 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 product of this gene, the modulatory beta subunit. Intracellular calcium regulates the physical association between the alpha and beta subunits.

KCNMB1 Antibody (Center) - References

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Long, X., et al. J. Biol. Chem. 284(48):33671-33682(2009)
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