

**KCNMB2 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP20284a****Specification**

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**KCNMB2 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9Y691</a>
Other Accession	<a href="#">O811Q0</a> , <a href="#">NP_852006.1</a>
Reactivity	Human
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	27130
Antigen Region	1-30

**KCNMB2 Antibody (N-term) - Additional Information****Gene ID** 10242**Other Names**

Calcium-activated potassium channel subunit beta-2, BK channel subunit beta-2, BKbeta2, Hbeta2, Calcium-activated potassium channel, subfamily M subunit beta-2, Charybdotoxin receptor subunit beta-2, Hbeta3, K(VCA)beta-2, Maxi K channel subunit beta-2, Slo-beta-2, KCNMB2

**Target/Specificity**

This KCNMB2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human KCNMB2.

**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**

KCNMB2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**KCNMB2 Antibody (N-term) - Protein Information**

**Name** KCNMB2

**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. Acts as a negative regulator that confers rapid and complete inactivation of KCNMA1 channel complex. May participate in KCNMA1 inactivation in chromaffin cells of the adrenal gland or in hippocampal CA1 neurons.

**Cellular Location**

Membrane; Multi-pass membrane protein.

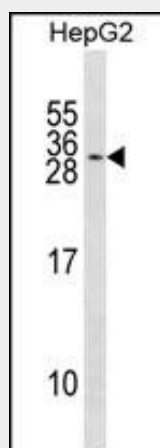
**Tissue Location**

Expressed in kidney, heart and brain. Highly expressed in ovary. Expressed at low level in other tissues

**KCNMB2 Antibody (N-term) - 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](#)

**KCNMB2 Antibody (N-term) - Images**

KCNMB2 Antibody (N-term) (Cat. #AP20284a) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the KCNMB2 antibody detected the KCNMB2 protein (arrow).

**KCNMB2 Antibody (N-term) - 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 decreases the activation time of MaxiK alpha subunit currents. Two variants encoding the same protein have been found for this gene. [provided by RefSeq].

#### **KCNMB2 Antibody (N-term) - References**

Trevino, L.R., et al. Nat. Genet. 41(9):1001-1005(2009)  
Lee, U.S., et al. J. Physiol. (Lond.) 587 (PT 7), 1481-1498 (2009) :  
Zarei, M.M., et al. Neuroscience 147(1):80-89(2007)  
Zeng, X.H., et al. J. Neurosci. 27(17):4707-4715(2007)  
Orio, P., et al. J. Gen. Physiol. 127(2):191-204(2006)