

Product datasheet for **TA355749**

KCNMB4 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human KCNMB4
Specificity:	Expected reactivity: Cow, Guinea Pig, Human, Mouse, Rabbit, Rat, Sheep Homology: Cow: 100%; Guinea Pig: 100%; Human: 100%; Mouse: 93%; Rabbit: 100%; Rat: 100%; Sheep: 100%
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	24kDa
Gene Name:	potassium calcium-activated channel subfamily M regulatory beta subunit 4
Database Link:	NP_055320 Entrez Gene 27345 Human Q86W47



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Background:

KCNMB4 is the regulatory subunit of the calcium activated potassium KCNMA1 (maxiK) channel. KCNMB4 modulates the calcium sensitivity and gating kinetics of KCNMA1, thereby contributing to KCNMA1 channel diversity. KCNMB4 decreases the gating kinetics and calcium sensitivity of the KCNMA1 channel, but with fast deactivation kinetics. KCNMB4 may decrease KCNMA1 channel openings at low calcium concentrations but increases channel openings at high calcium concentrations. KCNMB4 makes KCNMA1 channel resistant to 100 nM charybdotoxin (CTX) toxin concentrations. 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.

Synonyms:

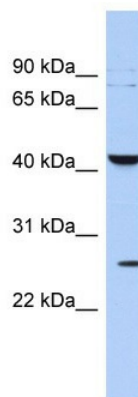
BKbeta4; Hbeta4; K(VCA)beta-4; Slo-beta-4

Protein Families:

Druggable Genome, Ion Channels: Other, Transmembrane

Protein Pathways:

Vascular smooth muscle contraction

Product images:

WB Suggested Anti-KCNMB4 Antibody Titration:
0.2-1 ug/ml
ELISA Titer: 1:312500
Positive Control: THP-1 cell lysate