

Datasheet for ABIN2776204
anti-KCNMB4 antibody (Middle Region)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µL
Target:	KCNMB4
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Sheep, Rabbit, Cow, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This KCNMB4 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human KCNMB4
Sequence:	TCGADCRGTS QYPCVQVYVN NSESNSRALL HSDEHQLLTN PKCSYIPPCK
Predicted Reactivity:	Cow: 100%, Guinea Pig: 100%, Human: 100%, Mouse: 93%, Rabbit: 100%, Rat: 100%, Sheep: 100%
Characteristics:	This is a rabbit polyclonal antibody against KCNMB4. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	KCNMB4
---------	--------

Target Details

Alternative Name:	KCNMB4 (KCNMB4 Products)
Background:	<p>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.</p> <p>Alias Symbols: -</p> <p>Protein Size: 210</p>
Molecular Weight:	24 kDa
Gene ID:	27345
NCBI Accession:	NM_014505 , NP_055320
UniProt:	Q86W47

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 210 AA
Restrictions:	For Research Use only

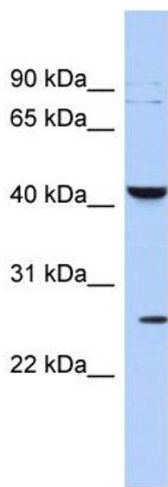
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	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.

Images



Western Blotting

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