

Rabbit KCNMB2 Polyclonal Antibody | anti-KCNMB2 antibody

KCNMB2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324535	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

KCNMB2; Polyclonal Antibody; KCNMB2 Antibody; 2700049B16Rik; 3110031N04Rik; BK channel subunit beta 2; BK channel subunit beta-2; BKbeta2; Calcium activated potassium channel subfamily M subunit beta 2; Calcium activated potassium channel subunit beta 2; Calcium-activated potassium channel; Calcium-activated potassium channel subunit beta-2; Charybdotoxin receptor subunit beta 2; Charybdotoxin receptor subunit beta-2; Hbeta2; Hbeta3; K(VCA)beta-2; K(VCA)beta2; KCMB2_HUMAN; KCNMB 2; Kcnmb2; Large conductance Ca2+ activated K+ channel beta2 subunit; Large conductance calcium activated potassium channel beta 2 subunit; Maxi K channel subunit beta 2; Maxi K channel subunit beta-2; MaxiK channel beta 2 subunit; MGC22431; MGC57945; Potassium large conductance calcium activated channel subfamily M beta member 2; Slo-beta-2; Slobeta2; subfamily M subunit beta-2; anti-KCNMB2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	KCNMB2 antibody detects endogenous levels of total KCNMB2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	235
Applicable Applications for anti-KCNMB2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Membrane.
Tissue Specificity	Expressed in kidney, heart and brain. Highly expressed in ovary. Expressed at low level in other tissues.
Predicted Cross Reactivity	Pig, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from HepG2 cells using KCNMB2 antibody.



WB (Western Blot)
Western blot analysis of KCNMB2 expression in Mouse brain lysate



IF (Immunofluorescence)
AAA324535 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-KCNMB2 antibody

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.

Subunit Structure: Interacts with KCNMA1 tetramer. There are probably 4 molecules of KCMNB2 per KCNMA1 tetramer.

Post-translational Modifications: N-glycosylated.

Similarity: The ball and chain domain mediates the inactivation of KCNMA1. It occludes the conduction pathway of KCNMA1 channels, and comprises the pore-blocking ball domain (residues 1-17) and the chain domain (residues 20-45) linking it to the transmembrane segment. The ball domain is made up of a flexible N-terminus anchored at a well ordered loop-helix motif. The chain domain consists of a 4-turn helix with an unfolded linker at its C-terminus. Belongs to the KCNMB (TC 8.A.14.1) family. KCNMB2 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	524589096
NCBI GeneID	10242
NCBI Accession #	NP_001265840.1
NCBI GenBank Nucleotide #	NM_001278911.1
UniProt Accession #	Q9Y691
Molecular Weight	Observed: 30 kD Predicted: 28 kDa
NCBI Official Full Name	calcium-activated potassium channel subunit beta-2
NCBI Official Synonym Full Names	potassium calcium-activated channel subfamily M regulatory beta subunit 2
NCBI Official Symbol	KCNMB2
NCBI Protein Information	calcium-activated potassium channel subunit beta-2
UniProt Protein Name	Calcium-activated potassium channel subunit beta-2
UniProt Gene Name	KCNMB2
UniProt Synonym Gene Names	BKbeta2; Hbeta2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/kcnmb2-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324535>