

Rabbit MaxiKbeta Polyclonal Antibody | anti-KCNMB4 antibody

MaxiKbeta Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327530	Rabbit	Human, Mouse, Rat, Monkey	ELISA, Immunohistochemistry, Western Blot

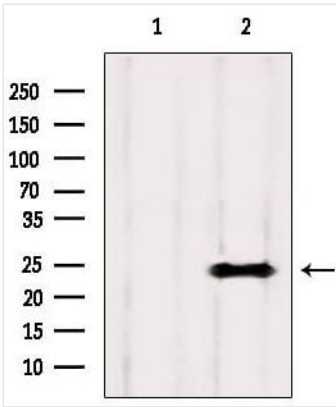
PRODUCT SYNONYMS

MaxiKbeta; Polyclonal Antibody; MaxiKbeta Antibody; BK channel subunit beta 4; BK channel subunit beta-4; BKbeta4; Calcium activated potassium channel beta 4 subunit; Calcium activated potassium channel subfamily M subunit beta 4; Calcium activated potassium channel subunit beta 4; Calcium-activated potassium channel; Calcium-activated potassium channel subunit beta-4; Charybdotoxin receptor subunit beta 4; Charybdotoxin receptor subunit beta-4; Hbeta4; K(VCA)beta 4; K(VCA)beta-4; KCMB4_HUMAN; KCNMB 4; Kcnmb4; Large conductance calcium dependent potassium ion channel beta 4 subunit; Maxi K channel subunit beta 4; Maxi K channel subunit beta-4; Potassium large conductance calcium activated channel subfamily M beta member 4; Slo beta 4; Slo-beta-4; subfamily M subunit beta-4; anti-KCNMB4 antibody

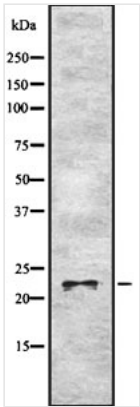
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Polyclonal
Isotype	IgG
Specificity	MaxiKbeta antibody detects endogenous levels of total MaxiKbeta
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	210
Applicable Applications for anti-KCNMB4 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MaxiK beta, corresponding to a region within the internal amino acids
Important	For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

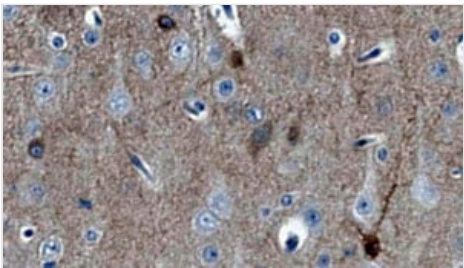
IMAGES



WB (Western Blot)
Western blot analysis of extracts from COS-7, using MaxiKBeta Ab. The lane on the left was treated with blocking peptide.



WB (Western Blot)
Western blot analysis of MaxiKBeta using HT29 whole cell lysates



IHC (Immunohistochemistry)
AAA327530 at 1/100 staining Human brain cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-KCNMB4 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. Decreases the gating kinetics and calcium sensitivity of the KCNMA1 channel, but with fast deactivation kinetics. May decrease KCNMA1 channel openings at low calcium concentrations but increases channel openings at high calcium concentrations. Makes KCNMA1 channel resistant to 100 nM charybdotoxin (CTX) toxin concentrations.

Subunit Structure: Interacts with KCNMA1 tetramer (PubMed:10692449, PubMed:10804197). There are probably 4 molecules of KCNMB4 per KCNMA1 tetramer (PubMed:10692449, PubMed:10804197). Interacts with FMR1 (via N-terminus) (PubMed:25561520).

Post-translational Modifications: Phosphorylated. Phosphorylation modulates its effect on KCNMA1 activation kinetics. N-glycosylated. A highly glycosylated form is promoted by KCNMA1. Glycosylation, which is not required for the interaction with KCNMA1 and subcellular location, increases protection against charybdotoxin.

Similarity: Resistance to charybdotoxin (CTX) toxin is mediated by the extracellular domain. Belongs to the KCNMB (TC 8.A.14.1) family. KCNMB4 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	26051275
NCBI GeneID	27345
NCBI Accession #	NP_055320.4
NCBI GenBank Nucleotide #	NM_014505.5
UniProt Accession #	Q86W47; Q8IVR3; Q9NPA4; Q9POG5
Molecular Weight	23 kDa

NCBI Official Full Name	calcium-activated potassium channel subunit beta-4
NCBI Official Synonym Full Names	potassium calcium-activated channel subfamily M regulatory beta subunit 4
NCBI Official Symbol	KCNMB4
NCBI Protein Information	calcium-activated potassium channel subunit beta-4
UniProt Protein Name	Calcium-activated potassium channel subunit beta-4
UniProt Gene Name	KCNMB4
UniProt Synonym Gene Names	BKbeta4; Hbeta4

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/maxikbeta-antibody-immunohistochemistry-western-blot-elisa/327530>