

Anti-KCMB1 antibody



Description	Unconjugated Rabbit polyclonal to KCMB1
Model	STJ190626
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Gene ID	3779
Gene Symbol	KCNMB1
Dilution range	WB 1:500-2000 ELISA 1:5000-20000
Specificity	KCMB1 Polyclonal Antibody detects endogenous levels of protein.
Tissue Specificity	Abundantly expressed in smooth muscle. Low levels of expression in most other tissues. Within the brain, relatively high levels found in hippocampus and corpus callosum.
Purification	KCMB1 antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Calcium-activated potassium channel subunit beta-1 BK channel subunit beta-1 BKbeta BKbeta1 Hbeta1 Calcium-activated potassium channel, subfamily M subunit beta-1 Calcium-activated potassium channel subunit beta C
Molecular Weight	21 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid form in PBS containing 50% glycerol, and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:6285OMIM:603951
Alternative Names	Calcium-activated potassium channel subunit beta-1 BK channel subunit beta-1 BKbeta BKbeta1 Hbeta1 Calcium-activated potassium channel, subfamily M subunit beta-1 Calcium-activated potassium channel subunit beta C
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. Increases the apparent Ca(2+)/voltage sensitivity of the KCNMA1 channel. It also modifies KCNMA1 channel kinetics and alters its pharmacological properties. It slows down the activation and the deactivation kinetics of the channel. Acts as a negative regulator of smooth muscle contraction by enhancing the calcium sensitivity to KCNMA1. Its presence is also a requirement for internal binding of the KCNMA1 channel opener dehydrosoyasaponin I (DHS-1) triterpene glycoside and for external binding of the agonist hormone 17-beta-estradiol (E2). Increases the binding activity of charybdotoxin (CTX) toxin to KCNMA1 peptide blocker by increasing the CTX association rate and decreasing the dissociation rate.
Cellular Localization	Membrane. Multi-pass membrane protein.
Post-translational Modifications	N-glycosylated.