DATASHEET

KCNMB1 Rabbit Polyclonal Antibody

CAT. NO. APA15962

KEY FEATURES

Target	KCNMB1	Source / Host	Rabbit
Reactivity	Human	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

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).

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:2000

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to KCNMB1
Specificity	Recognizes endogenous levels of KCNMB1 protein
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human KCNMB1. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 14; Observed: 18 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
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; Charybdotoxin receptor subunit beta-1; K(VCA)beta-1; Maxi K channel subunit beta-1; Slo-beta-1; Slo-beta
Gene Symbol	KCNMB1
Entrez Gene	3779(Human)
SwissProt	Q16558(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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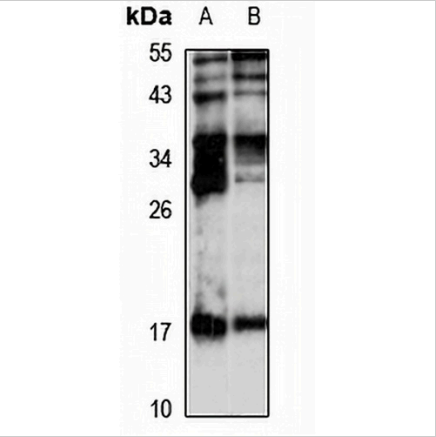
DATA



Western blot analysis of KCNMB1 expression in THP1 (A), MCF7 (B) whole cell lysates. (Predicted band size: 14; 21 kD; Observed band size: 18 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.