

Product datasheet for **TA328943**

Kcnmb1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide KKLVMAQKRGETRALC, corresponding to amino acid residues 2-17 of rat sloÅ?1. Intracellular, N-terminal part.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN ₃ .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	potassium calcium-activated channel subfamily M regulatory beta subunit 1
Database Link:	NP_062146 Entrez Gene 3779 Human Entrez Gene 16533 Mouse Entrez Gene 29747 Rat P97678



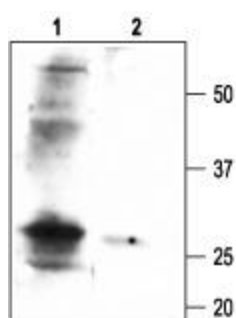
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Background:

slo β 1 is a member of a family of regulatory β subunits that control the activity of the large conductance Ca²⁺-activated K⁺ channel KCa1.1. The family includes four members with a shared topology: two trans-membrane domains, short intracellular N- and C-termini and a large extracellular region. The four members of the family have a distinct tissue distribution with slo β 1 expressed almost exclusively in smooth muscle. Functionally, slo β 1 increases the sensitivity of the pore-forming KCa1.1 subunit to Ca²⁺ and voltage and it also changes its pharmacology. In the past few years there has been a lot interest regarding the role of the slo β 1 subunit in the regulation of vascular tone and hypertension. Studies in slo β 1 knockout mice have shown that loss of this subunit results in systemic hypertension. Conversely, a recent study showed that a commonly found gain-of-function slo β 1 variant has a protective effect against human diastolic hypertension.

Synonyms:

BKbeta; BKbeta1; Hbeta1; hslo-beta; K(VCA)beta; K(VCA)beta-1; Slo-beta; Slo-beta-1

Product images:

Western blot analysis of rat smooth muscle lysate: 1. Anti-slo β 1 (KCNMB1) antibody, (1:200). 2. Anti-slo β 1 (KCNMB1) antibody, preincubated with the control peptide antigen.