

Product datasheet for **TA328959**

Kcnmb4 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 AKLRVSYEYTEAEDKS(C), corresponding to amino acid residues 2-17 of rat sloÅ?4. 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, 0.025% NaN3.
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 4
Database Link:	NP_076450 Entrez Gene 27345 Human Entrez Gene 58802 Mouse Entrez Gene 66016 Rat Q9ESK8

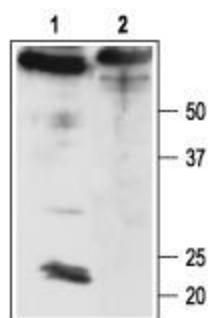
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Background:

slo β 4 is a member of a family of regulatory β subunits that control the activity of the large conductance Ca^{2+} -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 4 expressed almost exclusively in the central nervous system (CNS). Functionally, slo β 4 increases the sensitivity of the pore-forming KCa1.1 subunit to Ca^{2+} and voltage and it also changes its pharmacology. It has been shown that co-expression of slo β 4 with KCa1.1 makes the latter resistant to nM concentrations of the well-known inhibitors Charybdotoxin and Iberiotoxin. The physiological significance of slo β 4 expression in the CNS is not clear, but KCa1.1 channels are likely involved in the regulation of neurotransmitter release in presynaptic terminals.

Synonyms:

BK β 4; H β 4; K(VCA) β -4; Slo- β -4

Product images:


Western blot analysis of rat brain membranes: 1. Anti-slo β 4 (KCNMB4) antibody, (1:200). 2. Anti-slo β 4 (KCNMB4) antibody, preincubated with the control peptide antigen.