

Product datasheet for **TA328945**

Kcnn1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)DRPGSGKPPTVSHRLGHRR corresponding to amino acid residues 75-93 of rat KCa2.1 . 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, 0.025% 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 N member 1
Database Link:	NP_062186 Entrez Gene 54261 Rat P70606



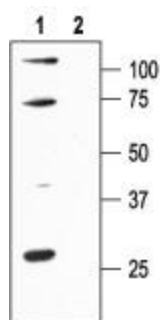
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Background:

KCa2.1 is a member of the Ca^{2+} -activated K^{+} channels family with small conductance that includes KCa2.2 (SK2) and KCa2.3 (SK3). The channel is voltage insensitive and is activated by intracellular Ca^{2+} in the submicromolar range. It has a similar topology to that of voltage-dependent K^{+} channels (KV channels), that is six transmembrane domains and intracellular N- and C-termini. KCa2.1 channel expression is roughly confined to neuronal tissue, although there are some indications that it may be present in non-neuronal tissues as well. The sensitivity of KCa2.1 to the bee venom toxin Apamin is a matter of some controversy. Expression of the human KCa2.1 in mammalian cell lines showed that most cells produce channels that can be blocked by Apamin. However, expression of KCa2.1 in *Xenopus* oocytes produced channels that were mostly insensitive to apamin. Interestingly, the rat KCa2.1 is unable to form functional channels when expressed alone in either cell lines or oocytes.

Synonyms:

hSK1; KCa2.1; SK; SK1; SKCA1

Product images:


Western blot analysis of rat brain cortex: 1. Anti-KCa2.1 (SK1, SKCa1) antibody, (1:200). 2. Anti-KCa2.1 (SK1, SKCa1) antibody, preincubated with the control peptide antigen.