

Product datasheet for **TA328980**

Kcnab1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)TPQHHISLKESTAK, corresponding to amino acid residues 54-67 of rat KV β 1. N-terminus.
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 voltage-gated channel subfamily A member regulatory beta subunit 1
Database Link:	NP_058999 Entrez Gene 7881 Human Entrez Gene 16497 Mouse Entrez Gene 29737 Rat P63144



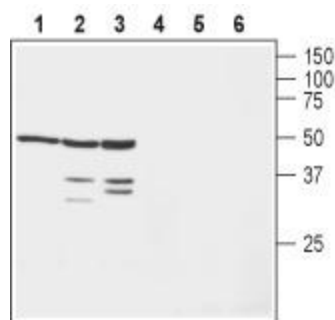
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Background:

Voltage-gated K⁺ channels represent a structurally and functionally diverse group of membrane proteins. These channels establish the resting membrane potential and modulate the frequency and duration of action potentials in nerve and muscle¹. The duration of the open states of K⁺ channels is determined by the rates of deactivation and inactivation. KV channels are hetero-oligomeric complexes consisting of two different types of subunits: membrane-bound, pore-forming subunits and the smaller β subunits. The β subunits appear to be peripheral proteins tightly associated with the cytoplasmic side of the α subunits. The inactivation gate can be formed by an N-terminal segment of an auxiliary β -subunit, as in the complex of KV α 1 and KV β family channels³. There are three mammalian KV β genes: KV β 1, KV β 2 and KV β 3. Additional variability in the KV β 1 family results from alternative splicing in the amino terminal region, thus yielding the KV β 1.1, KV β 1.2, and KV β 1.3 subunits.

Synonyms:

AKR6A3; hKvb3; hKvBeta3; KCNA1B; KV-BETA-1; Kvb1.3

Product images:

Western blot analysis of human SH-SY5Y neuroblastoma cell lysate (lanes 1 and 4), mouse brain lysate (lanes 2 and 5) and rat brain lysate (lanes 3 and 6): 1-3. Anti-KV β 1 antibody, (1:200). 4-6. Anti-KV β 1 antibody, preincubated with the control peptide antigen.