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Rabbit Anti-Kv2.1 antibody

SL4150R

Product Name:	Kv2.1
Chinese Name:	钾Channel proteinDRK1抗体
Alias:	Delayed rectifier potassium channel 1; Delayed rectifier potassium channel Kv2.1; DRK 1; DRK1; h DRK1 K(+) channel; h-DRK1; hDRK 1; hDRK1; KCB 1; KCB1; KCNB1; KCNB1_HUMAN; KV2.1; Potassium channel protein DRK1; Potassium voltage gated channel shab related subfamily member 1; Potassium voltage-gated channel subfamily B member 1; Voltage-gated potassium channel subunit Kv2.1.
文献引用 PubMed :	**Specific References(1)**|SL4150R has been referenced in 1 publications. **[IF=3.80]**Pucca, Manuela Berto, et al. "Immunosuppressive evidence of Tityus serrulatus toxins Ts6 and Ts15: insights of a novel K+ channel pattern in T cells." Immunology (2015).**Mouse**. PubMed:26595158
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Horse,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	96kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human DRK1:465-570/858
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Mediates the voltage-dependent potassium ion permeability of excitable membranes. Channels open or close in response to the voltage difference across the membrane, letting potassium ions pass in accordance with their electrochemical gradient. **Function:** Mediates the voltage-dependent potassium ion permeability of excitable membranes. Channels open or close in response to the voltage difference across the membrane, letting potassium ions pass in accordance with their electrochemical gradient. **Subunit:** Heteromultimer with KCNG2, KCNG3, KCNG4, KCNS1, KCNS2, KCNS3 and KCNV2 (By similarity). **Subcellular Location:** Membrane; Multi-pass membrane protein. **Post-translational modifications:** Highly phosphorylated on serine residues in the C-terminal. Differential phosphorylation on a subset of serines allows graded activity-dependent regulation of channel gating. Phosphorylation on Ser-457, Ser-541, Ser-567, Ser-607, Ser-656 and Ser-720 as well as the N-terminal Ser-15 are all regulated by calcineurin-mediated dephosphorylation. Particularly, Ser-607 and Tyr-128 are significant sites of voltage-gated regulation through phosphorylation/ dephosphorylation activities. Tyr-128 can be dephosphorylated by PTPalpha and cyt-PTPepsilon. Phosphorylation levels on Ser-607 are supersensitive to neuronal activity. Phosphorylation on Ser-567 is reduced during postnatal development with low levels at P2 and P5. Levels then increase to reach adult levels by P14. Phosphorylation levels on Ser-564 and Ser-607 are greatly reduced during seizures, by 40% and 85% respectively (By similarity). **Similarity:** Belongs to the potassium channel family. B (Shab) (TC 1.A.1.2) subfamily. Kv2.1/KCNB1 sub-subfamily. **SWISS:** Q14721 **Gene ID:** 3745 **Database links:**

	Entrez Gene: 3745 Human Entrez Gene: 16500 Mouse Entrez Gene: 25736 Rat Omim: 600397 Human SwissProt: Q14721 Human SwissProt: Q03717 Mouse SwissProt: P15387 Rat Unigene: 84244 Human Unigene: 387390 Mouse Unigene: 26724 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.