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Product datasheet for TA328968

Kcnma1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, IP, WB
Recommended Dilution:	WB: 1:200-1:2000; IHC: 1:100-1:3000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)STANRPNRPKSRESRDK, corresponding to amino acid residues 1184-1200 of mouse KCa1.1. Intracellular, C-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% 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 large conductance calcium-activated channel, subfamily M, alpha member 1
Database Link:	NP_034740 Entrez Gene 3778 HumanEntrez Gene 83731 RatEntrez Gene 16531 Mouse Q08460
Background:	KCa1.1 (BKCa, Maxi K+ or slo) is part of a structurally diverse group of K+ channels that are activated by an increase in intracellular Ca2+. KCa1.1 shows a large single channel conductance when recorded electrophysiologically and hence its name. It differs from the rest of the subfamily members in that it can be activated by both an increase in intracellular Ca2+ and by membrane depolarization. KCa1.1 is expressed in virtually all cell types where it causes hyperpolarization and helps to connect between intracellular Ca2+ signaling pathways and membrane excitability. Indeed, KCa1.1 channels have a crucial role in smooth muscle contractility, neuronal spike shaping and neurotransmitter release.

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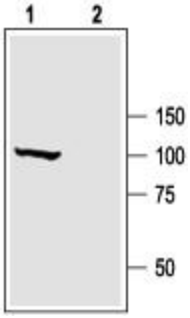
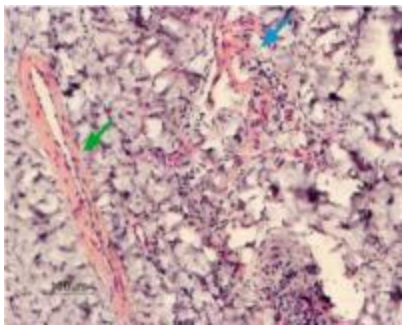
Synonyms: bA205K10.1; BKTM; DKFZp686K1437; hSlo; K(VCA)alpha; KCa1.1; KCNMA; MaxiK; MGC71881; mSLO1; SAKCA; SLO; SLO-ALPHA; Slo1

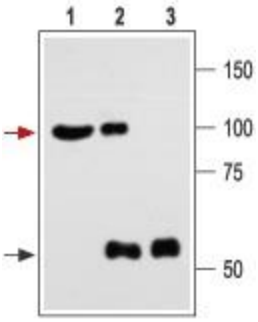
Product images:



Western blot analysis of rat brain membranes: 1. Anti-KCa1.1 (1184-1200) antibody, (1:500). 2. Anti-KCa1.1 (1184-1200) antibody, preincubated with the control peptide antigen.



Expression of KCa1.1 in rat penis. Immunohistochemical staining of rat penis transversal section using Anti-KCa1.1 (1184-1200) antibody. Strong and specific immunostaining is evident in both corpus cavernosum smooth muscle cells (blue arrow) and in the muscular layer of the penis artery (green arrow). Universal Immuno-alkaline-phosphatase Polymer followed by New Fuchsin Subtrate (histofine, Nichirei Corp.) was used for the color reaction. Hematoxillin is used as the counterstain.



Immunoprecipitation of rat brain lysate: 1. Brain lysate 2. Brain lysate immunoprecipitated with Anti-KCa1.1 (1184-1200) antibody, (4 µg). 3. Brain lysate immunoprecipitated with pre-immune rabbit serum. The upper arrow indicates the KCa1.1 channel while the lower arrow indicates the IgG heavy chain. Western blot analysis was performed with Anti-KCa1.1 (1184-1200) antibody.