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Datasheet

KCNJ1 polyclonal antibody

Catalog Number: PAB15638

Regulation Status: For research use only (RUO)

Product Description: Goat polyclonal antibody raised aganist synthetic peptide of KCNJ1.

Immunogen: A synthetic peptide corresponding to amino acids at internal region of human KCNJ1.

Sequence: C-DQININFVVDAGNEN

Host: Goat

Theoretical MW (kDa): 44.8, 42.7

Reactivity: Human

Applications: ELISA, WB-Ti
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Specificity: Approximately 45 KDa band observed in human, mouse and rat kidney lysates (calculated MW of 44.8 KDa according to NP_000211.1).

Form: Liquid

Purification: Antigen affinity purification

Concentration: 0.5 mg/mL

Recommend Usage: ELISA (1:8000)
Western Blot (1-3 ug/mL)
The optimal working dilution should be determined by the end user.

Storage Buffer: In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)

Storage Instruction: Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 3758

Gene Symbol: KCNJ1

Gene Alias: KIR1.1, ROMK, ROMK1

Gene Summary: Potassium channels are present in most mammalian cells, where they participate in a wide range of physiologic responses. The protein encoded by this gene is an integral membrane protein and inward-rectifier type potassium channel. It is activated by internal ATP and probably plays an important role in potassium homeostasis. The encoded protein has a greater tendency to allow potassium to flow into a cell rather than out of a cell. Mutations in this gene have been associated with antenatal Bartter syndrome, which is characterized by salt wasting, hypokalemic alkalosis, hypercalciuria, and low blood pressure. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

References:

1. Rare independent mutations in renal salt handling genes contribute to blood pressure variation. Ji W, Foo JN, O'Roak BJ, Zhao H, Larson MG, Simon DB, Newton-Cheh C, State MW, Levy D, Lifton RP. Nat Genet. 2008 May;40(5):592-9. Epub 2008 Apr 6.