



ROM-K Monoclonal Antibody

YP-mAb-16496
IgG
Human;Mouse;Rat
WB
KCNJ1
ATP-sensitive inward rectifier potassium channel 1
The antiserum was produced against synthesized peptide derived from human ROMK/Kir1.1. AA range:11-60
ROM-K Monoclonal Antibody detects endogenous levels of ROM-K protein.
Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Monoclonal, Mouse,IgG
The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
WB 1:500-1:2000
1 mg/ml
≥90%
-20°C/1 year
KCNJ1; ROMK1; ATP-sensitive inward rectifier potassium channel 1; ATP-regulated potassium channel ROM-K; Inward rectifier K(+) channel Kir1.1; Potassium channel; inwardly rectifying subfamily J member 1
Cell membrane ; Multi-pass membrane protein . Phosphorylation at Ser-44 by SGK1 is necessary for its expression at the cell membrane
In the kidney and pancreatic islets. Lower levels in skeletal muscle, pancreas, spleen, brain, heart and liver.
disease:Defects in KCNJ1 are the cause of Bartter syndrome type 2 (BS2) [MIM:241200]; also termed hyperprostanglandin E syndrome 2. BS refers to a group of autosomal recessive disorders characterized by impaired salt reabsorption in the thick ascending loop of Henle with pronounced salt wasting, hypokalemic metabolic alkalosis, and varying degrees of hypercalciuria. BS2 is a life-threatening condition beginning in utero, with marked fetal polyuria that leads to polyhydramnios and premature delivery. Another hallmark of BS2 is a marked hypercalciuria and, as a secondary consequence, the development of nephrocalcinosis and osteopenia.,function:In the kidney, probably plays a major role in potassium homeostasis. Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it. Their voltage dependence is regulated by



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Background

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 Batter syndrome, which is characterized by salt 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, Jul 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images