

For Research Use Only

Kir6.2 Polyclonal antibody

Catalog Number: 16920-1-AP



Basic Information

Catalog Number:

16920-1-AP

Size:

150UL, Concentration: 200 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG10262

GenBank Accession Number:

BC064497

GeneID (NCBI):

3767

Full Name:

potassium inwardly-rectifying channel, subfamily J, member 11

Calculated MW:

390 aa, 44 kDa

Observed MW:

48 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

IF 1:10-1:100

Applications

Tested Applications:

IF, WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB: rat heart tissue, HepG2 cells, human heart tissue, rat skeletal muscle tissue

IF: HepG2 cells,

Background Information

Kir6.2 (also known as BIR or IKATP), encoded by the KCNJ11 gene, is the pore-forming unit of the ATP-sensitive K⁺ channel, an inward-rectifier potassium ion channel. Kir6.2 is controlled by G-proteins and is found associated with the sulfonylurea receptor (SUR) to constitute the ATP-sensitive K⁺ channel. The KCNJ11 gene is located at 11p15.1 and has no intron. Mutations in KCNJ11 are a cause of familial PPH1, an autosomal recessive disorder characterized by unregulated insulin secretion. Defects in KCNJ11 may also contribute to autosomal dominant non-insulin-dependent diabetes mellitus type II (NIDDM), transient neonatal diabetes mellitus type 3 (TNDM3), and permanent neonatal diabetes mellitus (PNDM).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

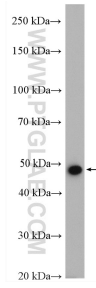
For technical support and original validation data for this product please contact:

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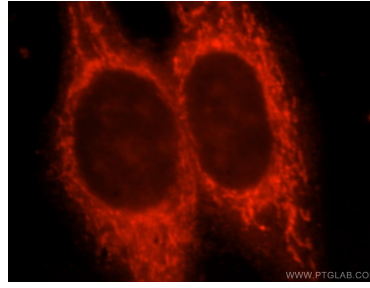
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



rat heart tissue were subjected to SDS PAGE followed by western blot with 16920-1-AP (Kir6.2 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells, using KCNJ11 antibody 16920-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).