

# Kir6.2 Polyclonal ANTIBODY

Catalog Number: 16920-1-AP

## Basic Information

<b>Catalog Number:</b> 16920-1-AP	<b>GenBank Accession Number:</b> BC064497	<b>Recommended Dilutions:</b> WB 1:200-1:1000 IF 1:10-1:100
<b>Size:</b> 20 µg/150 µl	<b>GeneID (NCBI):</b> 3767	
<b>Source:</b> Rabbit	<b>Full Name:</b> potassium inwardly-rectifying channel, subfamily J, member 11	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 390aa,44 kDa	
<b>Purification Method:</b> Antigen affinity purification	<b>Observed MW:</b> 48 kDa	
<b>Immunogen Catalog Number:</b> AG10262		

## Applications

### Tested Applications:

IF, WB, ELISA

### Species Specificity:

human,mouse,rat

**Note: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### 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<sup>+</sup> 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<sup>+</sup> channel. The KCNJ11 gene is located at 11p15.1 and has no intron. Mutations in KCNJ11 are a cause of familial persistent hyperinsulinemic hypoglycemia of infancy (PHHI), 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 (TNDMB), and permanent neonatal diabetes mellitus (PNDM).

## Notable Publications

Author	Pubmed ID	Journal	Application
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## 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

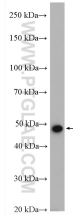
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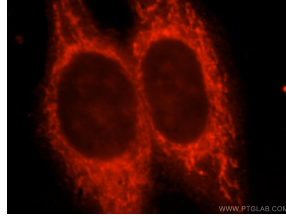
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## Selected Validation Data



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).