

For Research Use Only

# KCNJ1 Polyclonal antibody

Catalog Number: 20953-1-AP **2 Publications**



## Basic Information

**Catalog Number:**

20953-1-AP

**Size:**

300 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG15100

**GenBank Accession Number:**

BC074752

**GeneID (NCBI):**

3758

**UNIPROT ID:**

P48048

**Full Name:**

potassium inwardly-rectifying channel, subfamily J, member 1

**Calculated MW:**

391 aa, 45 kDa

**Observed MW:**

75-80 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

## Applications

**Tested Applications:**

IP, WB, ELISA

**Cited Applications:**

IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

mouse

**Positive Controls:**

WB : mouse brain tissue,

IP : mouse brain tissue,

## Background Information

KCNJ1, also called ROMK, is an inward-rectifying K<sup>+</sup> channel responsible for basal (non-flow stimulated) K<sup>+</sup> secretion. 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 the concentration of extracellular potassium. This channel is activated by internal ATP and can be blocked by external barium. The calculated molecule weight is 45kDa, 20953-1-AP can detect the band around 75-80 kDa, it has been considered to be a dimer of KCNJ1.(PMID: 17804670; 7929082; 15767585)

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhenguo Chen	24203997	J Am Soc Nephrol	IF
Chuanming Xu	27440776	Am J Physiol Renal Physiol	

## 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:

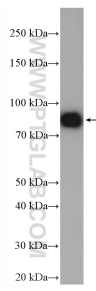
T: 4006900926

E: Proteintech-CN@ptglab.com

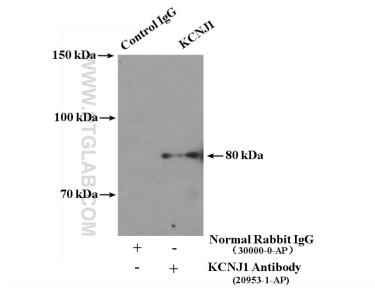
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 20953-1-AP (KCNJ1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-KCNJ1 (IP:20953-1-AP, 4ug; Detection:20953-1-AP 1:300) with mouse brain tissue lysate 3600ug.