

For Research Use Only

KCNJ1 Polyclonal antibody

Catalog Number: 20953-1-AP

2 Publications



Basic Information

Catalog Number:

20953-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 273 ug/ml by Bradford method using BSA as the standard;

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 ug for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

WB, IP, 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⁺ channel responsible for basal (non-flow stimulated) K⁺ 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

*** 20ul sizes contain 0.1% BSA

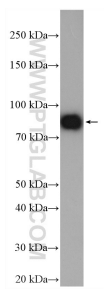
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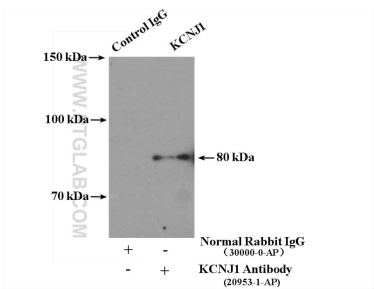
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Selected Validation Data



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.