

For Research Use Only

# KCNQ5 Polyclonal antibody

Catalog Number: 28000-1-AP



## Basic Information

### Catalog Number:

28000-1-AP

### Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG27622

### GenBank Accession Number:

NM\_001160130

### GeneID (NCBI):

56479

### UNIPROT ID:

Q9NR82

### Full Name:

potassium voltage-gated channel, KQT-like subfamily, member 5

### Calculated MW:

102 kDa

### Observed MW:

100 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

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

## Applications

### Tested Applications:

WB, IP, ELISA

### Species Specificity:

human, mouse, rat

### Positive Controls:

WB : Calu-1 cells, HEL cells, Raji cells, mouse brain tissue, rat brain tissue

IP : Raji cells,

## Background Information

Potassium voltage-gated channel subfamily Q member 5 (KCNQ5, also known as Kv7.5 and MRD46) is widely expressed in the brain and generates M-type current. It has a role in the regulation of neuronal excitability (PMID: 10816588). KCNQ5 mutations are associated with increased excitability and decreased repolarization reserve, lead to pathophysiology (PMID: 28669405).

## 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

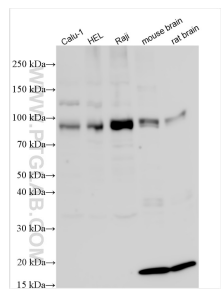
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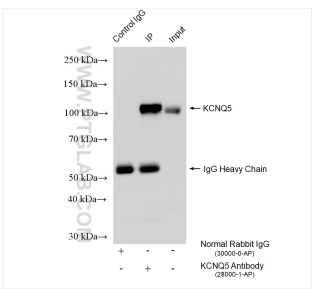
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28000-1-AP (KCNQ5 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-KCNQ5 (IP:28000-1-AP, 4ug; Detection:28000-1-AP 1:500) with Raji cells lysate 1600 ug.