

For Research Use Only

# CACNG3 Polyclonal antibody

Catalog Number: 13729-1-AP

1 Publications



## Basic Information

### Catalog Number:

13729-1-AP

### Size:

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

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4730

### GenBank Accession Number:

BC040005

### GeneID (NCBI):

10368

### UNIPROT ID:

O60359

### Full Name:

calcium channel, voltage-dependent, gamma subunit 3

### Calculated MW:

315 aa, 36 kDa

### Observed MW:

40 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse, rat

### Cited Species:

human

### Positive Controls:

WB : HEK-293 cells, mouse kidney tissue

IHC : mouse brain tissue,

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

## Background Information

Voltage-dependent calcium channels couple membrane depolarization in a number of cellular processes. These activities are regulated by distinct channels composed of alpha-1, beta, alpha-2/delta, and gamma subunits. CACNG3, one of the eight gamma subunits in human, is a type I transmembrane AMPA receptor regulatory protein (TARP). TARPs regulate both trafficking and channel gating of the AMPA receptors.

## Notable Publications

Author	Pubmed ID	Journal	Application
Enfang Shan	37697240	BMC Cancer	WB,IHC

## 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

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

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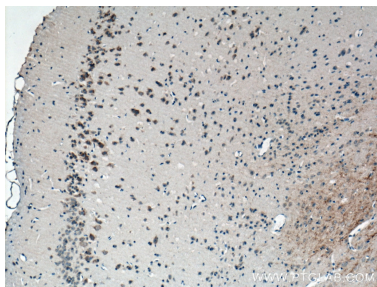
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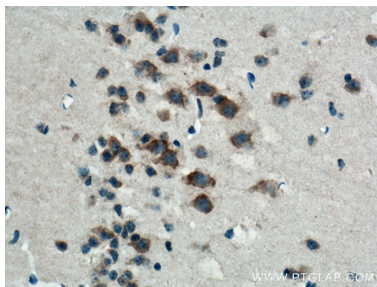
## Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 13729-1-AP (CACNG3 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13729-1-AP (CACNG3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 13729-1-AP (CACNG3 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).