

For Research Use Only

# GNB5 Polyclonal antibody

Catalog Number: 11045-2-AP

Featured Product

6 Publications



## Basic Information

### Catalog Number:

11045-2-AP

### Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 467 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1518

### GenBank Accession Number:

BC011671

### GeneID (NCBI):

10681

### UNIPROT ID:

O14775

### Full Name:

guanine nucleotide binding protein (G protein), beta 5

### Calculated MW:

39 kDa

### Observed MW:

39-42 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

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

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, rat, mouse

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

### Positive Controls:

WB : mouse brain tissue, human brain tissue

IP : rat brain tissue,

IHC : human ovary tumor tissue,

## Background Information

Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction. G proteins, which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit.

## Notable Publications

Author	Pubmed ID	Journal	Application
D Fuchs	25043307	Oncogene	WB
Wenna Zhang	31975557	J Cell Mol Med	WB
Christopher M Tracy	25659125	PMC Biophys	WB, IF

## 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

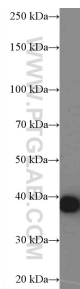
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

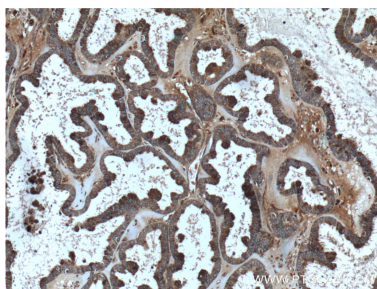
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

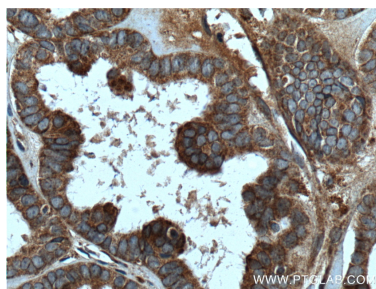
Selected Validation Data



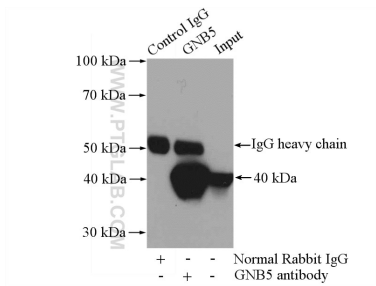
mouse brain tissue were subjected to SDS PAGE followed by western blot with 11045-2-AP (GNB5 Antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 11045-2-AP (GNB5 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 human ovary tumor tissue slide using 11045-2-AP (GNB5 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-GNB5 (IP:11045-2-AP, 4ug; Detection:11045-2-AP 1:500) with rat brain tissue lysate 4000ug.