

For Research Use Only

# GNAQ Polyclonal antibody

Catalog Number: 13927-1-AP

Featured Product

9 Publications



## Basic Information

### Catalog Number:

13927-1-AP

### Concentration:

267 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4947

### GenBank Accession Number:

BC057777

### GeneID (NCBI):

2776

### UNIPROT ID:

P50148

### Full Name:

guanine nucleotide binding protein (G protein), q polypeptide

### Calculated MW:

42 kDa

### Observed MW:

38-40 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:6000

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, 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:** HeLa cells, human brain tissue, mouse lung tissue, mouse skin tissue, Jurkat cells, NIH/3T3 cells, mouse brain tissue, rat brain tissue

**IHC:** human testis tissue, human breast cancer tissue

**IF/ICC:** HEK-293 cells,

## Background Information

GNAQ is a proto-oncogene closely related to the  $\alpha$  subunit of guanine nucleotide-binding proteins (G proteins) that serve as key intermediates between membrane-bound G-protein-coupled receptors (GPCRs) and GPCR signalling nodes. Aberrant expression and activity of G proteins and GPCRs are frequently associated with tumorigenesis. Recent studies show that oncogenic activating mutations in GNAQ are present in 80% of the melanomas. The calculated molecular weight of GNAQ is 42 kDa. This antibody can detect a band of 38-40 kDa in SDS-PAGE. (PMID: 33993733)

## Notable Publications

Author	Pubmed ID	Journal	Application
Clinita E Randolph	36174676	J Biol Chem	WB,IF
Miwa Sasai	33970189	J Exp Med	WB
Yizhuo Wang	28350126	Oncol Rep	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, pH7.3

Aliquoting is unnecessary for -20°C storage

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

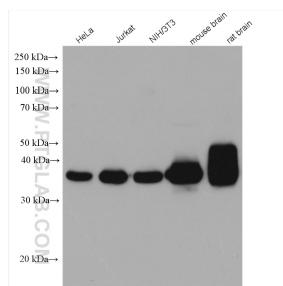
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

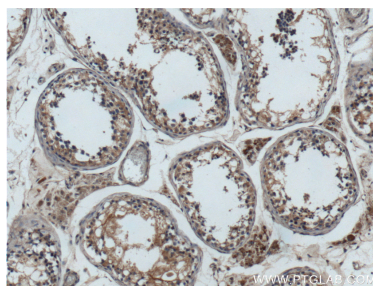
W: [ptgcn.com](http://ptgcn.com)

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

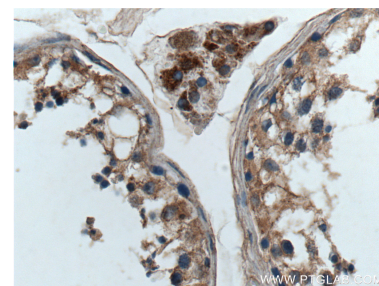
## Selected Validation Data



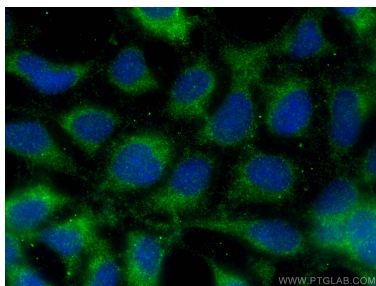
Various lysates were subjected to SDS PAGE followed by western blot with 13927-1-AP (GNAQ antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 13927-1-AP (GNAQ antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human testis tissue slide using 13927-1-AP (GNAQ antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using GNAQ antibody (13927-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).