

For Research Use Only

# GNAQ Monoclonal antibody

Catalog Number: 68191-1-Ig

Featured Product



## Basic Information

Catalog Number:

68191-1-Ig

Concentration:

1000 ug/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG26178

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:

Protein A purification

CloneNo.:

2H5G6

Recommended Dilutions:

WB: 1:5000-1:50000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat, pig, rabbit

Positive Controls:

WB: Jurkat cells, HeLa cells, rat brain tissue, pig cerebellum tissue, rat cerebellum tissue, MCF-7 cells, pig brain tissue, rabbit brain tissue, mouse brain tissue

## 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)

## 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:

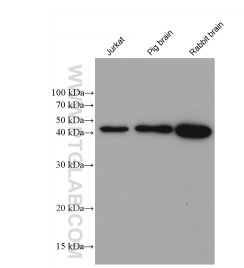
T: 4006900926

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

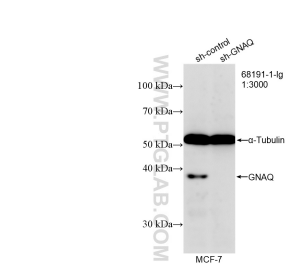
W: [ptgcn.com](http://ptgcn.com)

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 68191-1-Ig (GNAQ antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



WB result of GNAQ antibody (68191-1-Ig; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GNAQ transfected MCF-7 cells.