

# GNAQ Polyclonal antibody

Catalog Number: 27264-1-AP

## Basic Information

**Catalog Number:**

27264-1-AP

**Size:**

300 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG26170

**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 1:1000-1:3000

## Applications

**Tested Applications:**

WB, ELISA

**Species Specificity:**

human, mouse

**Positive Controls:**

WB : PC-12 cells, HepG2 cells, 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:**

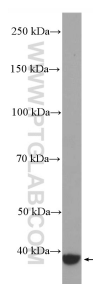
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



PC-12 cells were subjected to SDS PAGE followed by western blot with 27264-1-AP (GNAQ antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.