



## Rabbit Anti-GNAQ antibody

SL6152R

|                               |   |
|-------------------------------|---|
| <b>Product Name:</b>          | GNAQ  |
| <b>Chinese Name:</b>          | G蛋白 $\alpha$ 亚单位蛋白Q抗体   |
| <b>Alias:</b>                 | G ALPHA q; G protein alpha Q; GAQ; Guanine nucleotide binding protein alpha q; Guanine nucleotide binding protein G q subunit alpha; GNAQ_HUMAN.  |
| <b>Organism Species:</b>      | Rabbit  |
| <b>Clonality:</b>             | Polyclonal  |
| <b>React Species:</b>         | Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,   |
| <b>Applications:</b>          | WB=1:500-2000ELISA=1:500-1000<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user.  |
| <b>Molecular weight:</b>      | 42kDa   |
| <b>Cellular localization:</b> | The nucleusThe cell membrane  |
| <b>Form:</b>                  | Lyophilized or Liquid   |
| <b>Concentration:</b>         | 1mg/ml  |
| <b>immunogen:</b>             | KLH conjugated synthetic peptide derived from human GNAQ:51-150/359   |
| <b>Lsotype:</b>               | IgG   |
| <b>Purification:</b>          | affinity purified by Protein A  |
| <b>Storage Buffer:</b>        | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.  |
| <b>Storage:</b>               | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.   |
| <b>PubMed:</b>                | <a href="#">PubMed</a>  |
| <b>Product Detail:</b>        | GNAQ belong to the family of heterotrimeric Guanine nucleotide-binding proteins proteins that couple cell surface, 7-transmembrane domain receptors to intracellular signaling pathways. Receptor activation catalyzes the exchange of GTP for GDP bound to the inactive G protein alpha subunit resulting in a conformational change and dissociation of the complex. GNAQ is the alpha subunit of one of the heterotrimeric GTP-binding proteins that mediates stimulation of phospholipase C-beta. in recent studies over expression of GNAQ is associated with cardiomyocyte apoptosis. |

**Function:**

Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. Regulates B-cell selection and survival and is required to prevent B-cell-dependent autoimmunity. Regulates chemotaxis of BM-derived neutrophils and dendritic cells (in vitro) (By similarity).

**Subunit:**

G proteins are composed of 3 units; alpha, beta and gamma. The alpha chain contains the guanine nucleotide binding site. Binds SLC9A3R1. Forms a complex with PECAM1 and BDKRB2. Interacts with PECAM1.

**Subcellular Location:**

Nucleus (By similarity). Membrane (By similarity). Nucleus membrane (By similarity). Note=Colocalizes with the adrenergic receptors, ADREN1A and ADREN1B, at the nuclear membrane of cardiac myocytes (By similarity).

**Tissue Specificity:**

Predominantly expressed in ovary, prostate, testis and colon.

**Similarity:**

Belongs to the G-alpha family. G(q) subfamily.

**SWISS:**

P50148

**Gene ID:**

2776

**Database links:**

[Entrez Gene: 2776](#)Human

[Entrez Gene: 14682](#)Mouse

[Entrez Gene: 654405](#)Pig

[Entrez Gene: 81666](#)Rat

[Olim: 600998](#)Human

[SwissProt: P50148](#)Human

[SwissProt: P21279](#)Mouse

[SwissProt: Q2PKF4](#)Pig

[SwissProt: P82471](#)Rat

[Unigene: 269782](#)Human

[Unigene: 439701](#)Mouse

[Unigene: 441601](#)Mouse

[Unigene: 22817](#)Rat

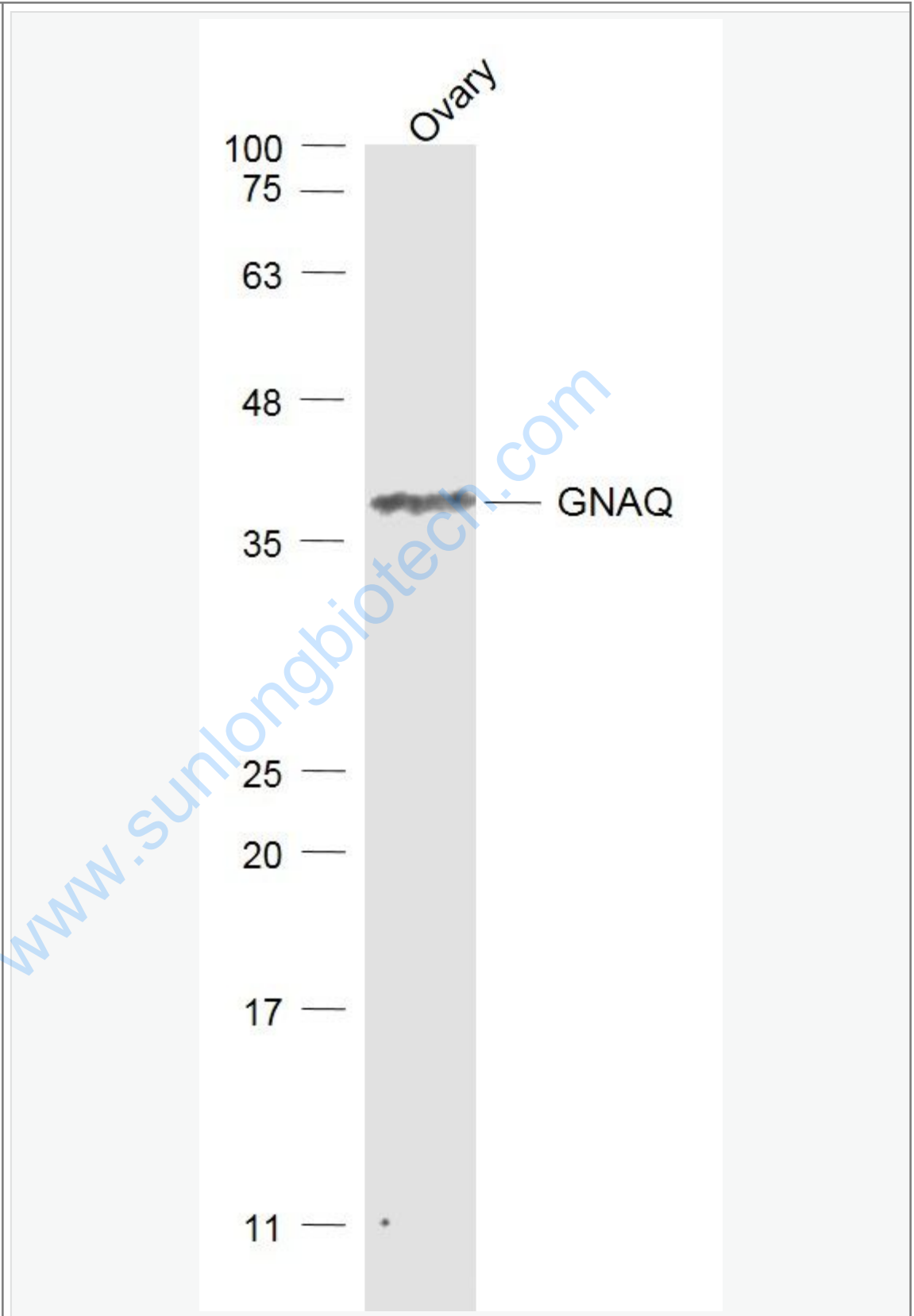
**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Gαq是G蛋白家族成员之一,是Gq蛋白的功能单位。其功能为传导来自GPCR的信号到细胞内。研究证明,Gαq与免疫细胞活化、增殖、死亡、分化、迁移,cell factor分泌以及自身免疫等均有非常密切的关系。

www.sunlongbiotech.com

Picture:



Sample:

Ovary (Mouse) Lysate at 40 ug

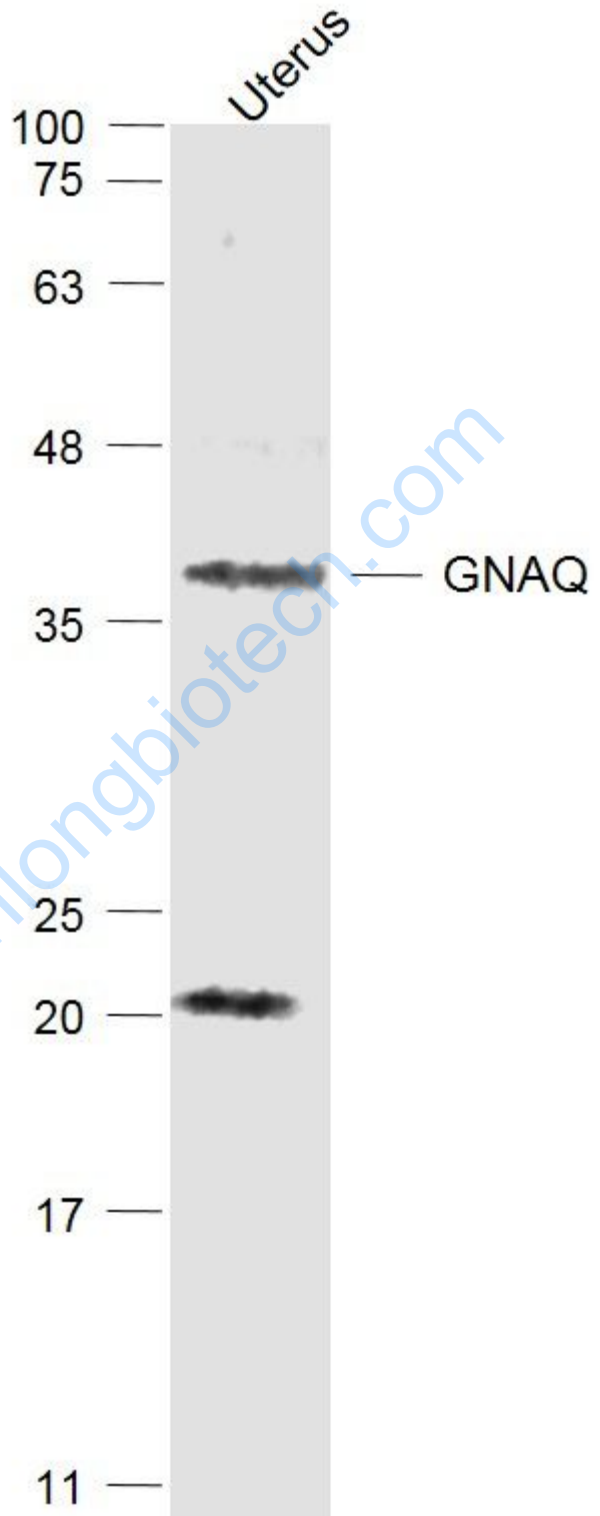
Primary: Anti-GNAQ (SL6152R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 42 kD

Observed band size: 42 kD

[www.sunlongbiotech.com](http://www.sunlongbiotech.com)



Sample:

Uterus (Mouse) Lysate at 40 ug

Primary: Anti-GNAQ (SL6152R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 42 kD

Observed band size: 42 kD



Sample:

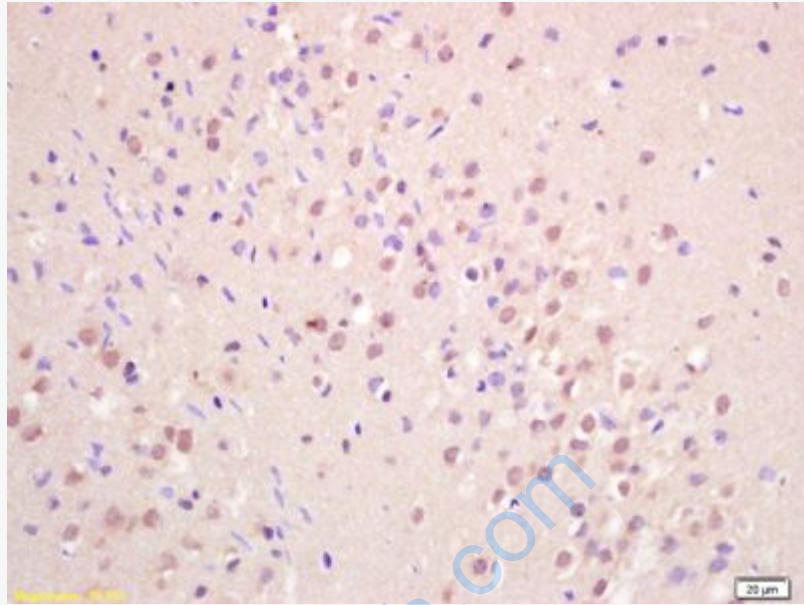
SY5Y(Human) Cell Lysate at 30 ug

Primary: Anti-GNAQ (SL6152R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 42 kD

Observed band size: 42 kD



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-GNAQ/Gα q Polyclonal Antibody, Unconjugated(SL6152R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining