

**GNAQ / ALPHA-q (aa162-175) Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3471a

**Specification**

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**GNAQ / ALPHA-q (aa162-175) Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">P50148</a>
Other Accession	<a href="#">NP_002063.2</a> , <a href="#">2776</a> , <a href="#">14682 (mouse)</a> , <a href="#">81666 (rat)</a>
Reactivity	Human, Mouse, Rat
Predicted	Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	42142

**GNAQ / ALPHA-q (aa162-175) Antibody (internal region) - Additional Information**

**Gene ID** 2776

**Other Names**

Guanine nucleotide-binding protein G(q) subunit alpha, Guanine nucleotide-binding protein alpha-q, GNAQ, GAQ

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GNAQ / ALPHA-q (aa162-175) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**GNAQ / ALPHA-q (aa162-175) Antibody (internal region) - Protein Information**

**Name** GNAQ

**Synonyms** GAQ

**Function**

Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. Required for platelet activation. 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). Transduces FFAR4 signaling in response to long- chain fatty acids (LCFAs) (PubMed:<a href="http://www.uniprot.org/citations/27852822" target="\_blank">27852822</a>). Together with GNA11, required for heart development (By similarity).

#### Cellular Location

Cell membrane; Lipid-anchor. Golgi apparatus. Nucleus {ECO:0000250|UniProtKB:P21279} Nucleus membrane {ECO:0000250|UniProtKB:P21279}. Note=Colocalizes with the adrenergic receptors, ADREN1A and ADREN1B, at the nuclear membrane of cardiac myocytes. {ECO:0000250|UniProtKB:P21279}

#### Tissue Location

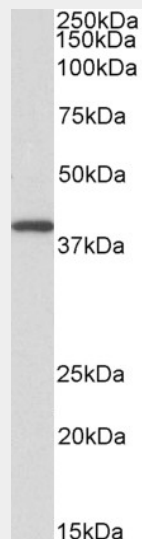
Predominantly expressed in ovary, prostate, testis and colon. Down-regulated in the peripheral blood lymphocytes (PBLs) of rheumatoid arthritis patients (at protein level)

### GNAQ / ALPHA-q (aa162-175) Antibody (internal region) - Protocols

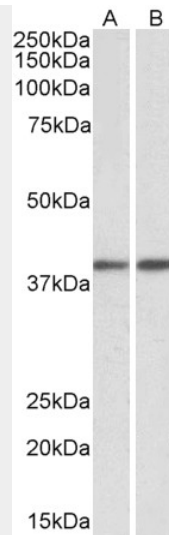
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

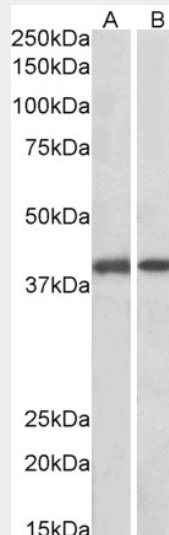
### GNAQ / ALPHA-q (aa162-175) Antibody (internal region) - Images



AF3471a (0.1 µg/ml) staining of Peripheral Blood Lymphocytes lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF3471a (0.1µg/ml) staining of Mouse (A) and Rat (B) Testis lysates (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF3471a (0.1µg/ml) staining of Pig Colon (A) and Pig Spleen (B) lysates (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **GNAQ / ALPHA-q (aa162-175) Antibody (internal region) - References**

Interplay between the heterotrimeric G-protein subunits Galphaq and Galphai2 sets the threshold for chemotaxis and TCR activation. Ngai J, Inngjerdingen M, Berge T, TaskÅ©n K, BMC immunology 2009 10 : 27. PMID: 19426503