

**GNAQ Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14179a****Specification**

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**GNAQ Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P50148](#)**GNAQ Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 2776**Other Names**

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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**GNAQ Antibody (N-term) Blocking Peptide - 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:&lt;a href="http://www.uniprot.org/citations/27852822" target="\_blank"&gt;27852822&lt;/a&gt;). 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 Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

### **GNAQ Antibody (N-term) Blocking Peptide - Images**

### **GNAQ Antibody (N-term) Blocking Peptide - Background**

This locus encodes a guanine nucleotide-binding protein. The encoded protein, an alpha subunit in the Gq class, couples a seven-transmembrane domain receptor to activation of phospholipase C-beta. Mutations at this locus have been associated with problems in platelet activation and aggregation. A related pseudogene exists on chromosome 2.

### **GNAQ Antibody (N-term) Blocking Peptide - References**

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