

GNAQ Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14179a

Specification

GNAQ Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	P50148
Other Accession	P38410 , P82471 , Q2PKF4 , P21279 , NP_002063.2
Reactivity	Human
Predicted	Mouse, Pig, Rat, Xenopus
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	42142
Antigen Region	52-78

GNAQ Antibody (N-term) - Additional Information

Gene ID 2776

Other Names

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

Target/Specificity

This GNAQ antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 52-78 amino acids from the N-terminal region of human GNAQ.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

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

Precautions

GNAQ Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GNAQ Antibody (N-term) - 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:[27852822](#)). 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

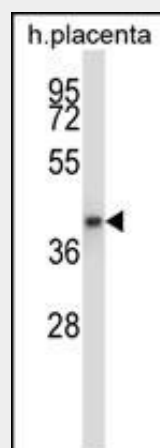
Predominantly expressed in ovary, prostate, testis and colon. Down-regulated in the peripheral blood lymphocytes (PBLs) of rheumatoid arthritis patients (at protein level)

GNAQ Antibody (N-term) - Protocols

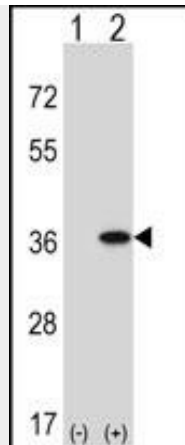
Provided below are standard protocols that you may find useful for product applications.

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

GNAQ Antibody (N-term) - Images



GNAQ Antibody (N-term) (Cat. #AP14179a) western blot analysis in human placenta tissue lysates (35ug/lane). This demonstrates the GNAQ antibody detected the GNAQ protein (arrow).



Western blot analysis of GNAQ (arrow) using rabbit polyclonal GNAQ Antibody (N-term) (Cat. #AP14179a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the GNAQ gene.

GNAQ Antibody (N-term) - 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) - References

Dratviman-Storobinsky, O., et al. *Invest. Ophthalmol. Vis. Sci.* 51(12):6180-6182(2010)
Crouthamel, M., et al. *Mol. Pharmacol.* 78(4):767-777(2010)
Chillar, A., et al. *Biochemistry* 49(30):6365-6374(2010)
Klenke, S., et al. *Pharmacogenet. Genomics* 20(8):476-484(2010)
Salmanian, S., et al. *Biochem. Biophys. Res. Commun.* 395(4):577-582(2010)