

Rabbit GNAQ Polyclonal Antibody | anti-GNAQ antibody

GNAQ Antibody (N-term)

CATALOG # AAA286060	HOST Rabbit	REACTIVITY Human (Predicted Reactivity: Mouse, Pig, Rat, Xenopus)	APPLICATIONS ELISA, Western Blot
-------------------------------	-----------------------	---	--

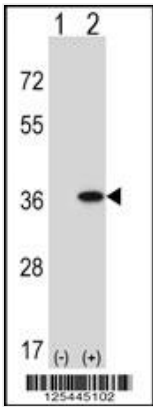
PRODUCT SYNONYMS

GNAQ; Polyclonal Antibody; GNAQ Antibody (N-term); Guanine nucleotide-binding protein G(q) subunit alpha; Guanine nucleotide-binding protein alpha-q; GAQ; anti-GNAQ antibody

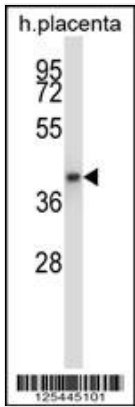
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Pig, Rat, Xenopus)
Clonality	Polyclonal
Isotype	Rabbit Ig
Clone Number	RB25445
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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Positions	52-78
Sequence Length	359
Applicable Applications for anti-GNAQ antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
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).
Cellular Location	Nucleus. Membrane. Nucleus membrane. Note=Colocalizes with the adrenergic receptors, ADREN1A and ADREN1B, at the nuclear membrane of cardiac myocytes.
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).
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



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



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

ADDITIONAL INFORMATION

Related Product Information for anti-GNAQ antibody	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.
Product Categories/Family for anti-GNAQ antibody	Cancer; Cardiovascular; Neuroscience; Signal transduction
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	40254462
NCBI GeneID	2776
NCBI Accession #	NP_002063.2
NCBI GenBank Nucleotide #	NM_002072.4
UniProt Accession #	P50148; O15108; Q13462; Q6NT27; Q92471; Q9BZB9
Molecular Weight	42142
NCBI Official Full Name	guanine nucleotide-binding protein G(q) subunit alpha
NCBI Official Synonym Full Names	guanine nucleotide binding protein (G protein), q polypeptide
NCBI Official Symbol	GNAQ
NCBI Official Synonym Symbols	GAQ; SWS; CMC1; G-ALPHA-q
NCBI Protein Information	guanine nucleotide-binding protein G(q) subunit alpha
UniProt Protein Name	Guanine nucleotide-binding protein G(q) subunit alpha
UniProt Gene Name	GNAQ

UniProt Synonym Gene Names	GAQ
UniProt Entry Name	GNAQ_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/gnaq-antibody-clone-rb25445-western-blot-elisa/286060>