

Rabbit GNAQ Polyclonal Antibody | anti-GNAQ antibody

GNAQ Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328663	Rabbit	Human, MousePredicted: Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus	Western Blot

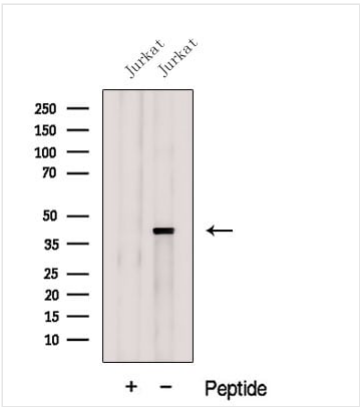
PRODUCT SYNONYMS

GNAQ; Polyclonal Antibody; GNAQ Antibody; CMC1; G alpha Q; G protein alpha Q; G protein subunit alpha q; G-ALPHA-q; GAQ; GNAQ_HUMAN; guanine nucleotide binding protein (G protein); q polypeptide; Guanine nucleotide binding protein alpha q; guanine nucleotide binding protein G protein q polypeptide; Guanine nucleotide binding protein G q subunit alpha; Guanine nucleotide-binding protein alpha-q; Guanine nucleotide-binding protein G(q) subunit alpha; SWS; anti-GNAQ antibody

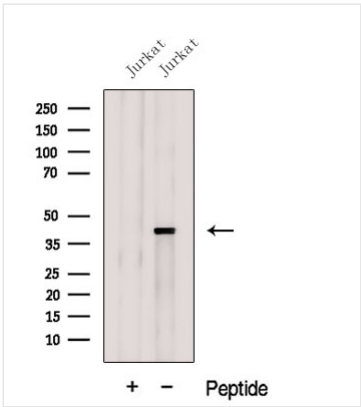
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse Predicted: Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Clonality	Polyclonal
Isotype	IgG
Specificity	GNAQ Antibody detects endogenous levels of GNAQ.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	359
Applicable Applications for anti-GNAQ antibody	WB (Western Blot)
Immunogen	A synthesized peptide derived from human GNAQ.
Tissue Specificity	Predominantly expressed in ovary, prostate, testis and colon. Down-regulated in the peripheral blood lymphocytes (PBLs) of rheumatoid arthritis patients (at protein level).
Fragment	Fab Fragment
Conjugate	Unconjugated
Subcellular Location	Nucleus
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

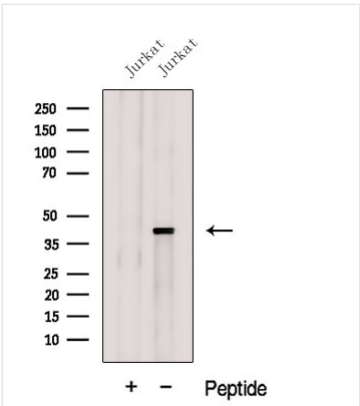
IMAGES



WB (Western Blot)
Western blot analysis of extracts from Jurkat cells, using GNAQ Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from Mouse spleen, using GNAQ Antibody. The lane on the left was treated with blocking peptide.



IF (Immunofluorescence)
staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. Samples were then incubated with primary Ab(1:200) and mouse anti-beta tubulin Ab(1:200) for 1 hour at 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(1:200 Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(1:600 Green) were used as the secondary antibody

ADDITIONAL INFORMATION

Related Product Information for anti-GNAQ antibody	Description: 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).
	Post Translational Modifications: (Microbial infection) Deamidated at Gln-209 by Phototribus asymbiotica toxin PAU_02230, blocking GTP hydrolysis of heterotrimeric GNAQ or GNA11 and G-alpha1 (GNAI1, GNAI2 or GNAI3) proteins, thereby activating RhoA.
	Subunit Structure: 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.
	Similarity: Belongs to the G-alpha family. G(q) subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	40254462
NCBI GeneID	2776

NCBI Accession #	NP_002063.2
NCBI GenBank Nucleotide #	NP_002063.2
UniProt Accession #	P50148
Molecular Weight	Observed: 42 kDa Predicted: 43 kDa
NCBI Official Full Name	guanine nucleotide-binding protein G(q) subunit alpha
NCBI Official Synonym Full Names	G protein subunit alpha q
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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gnaq-antibody-western-blot-elisa/328663>