

ARG10606 anti-GNAQ antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes GNAQ
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	GNAQ
Species	Human
Immunogen	Synthetic peptide from Human GNAQ protein. (KYEHNKAHAQLVREVDVEKVSFAFENPYVDAIKSLWND)
Conjugation	Un-conjugated
Alternate Names	GAQ; SWS; CMC1; G-ALPHA-q; Guanine nucleotide-binding protein G(q) subunit alpha; Guanine nucleotide-binding protein alpha-q

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	ICC/IF	1 - 5 µg/ml
	IHC-P	1 - 5 µg/ml
	WB	0.1 - 0.5 µg/ml

Application Note IHC-P: Antigen Retrieval: Boil tissue sections in 10 mM Citrate buffer (pH 6.0) for 20 min
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.025% Sodium azide and 2.5% BSA.
Preservative	0.025% Sodium azide
Stabilizer	2.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

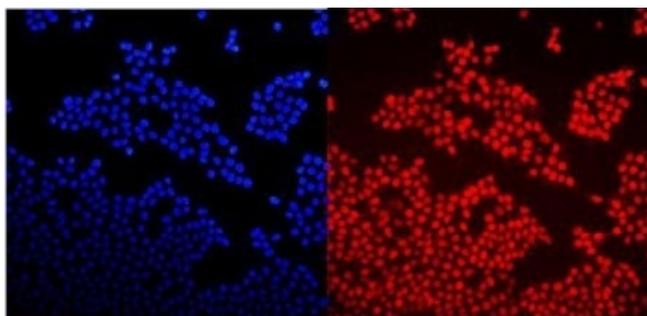
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

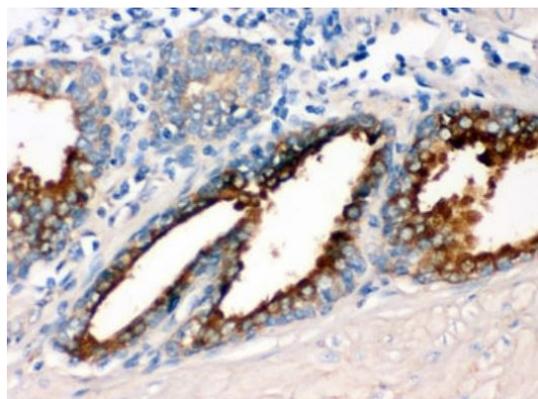
Gene Symbol	GNAQ
Gene Full Name	guanine nucleotide binding protein (G protein), q polypeptide
Background	This locus encodes a guanine nucleotide-binding protein. The encoded protein, an alpha subunit in the Gq class, couples a seven-transmembrane domain receptor to activation of phospholipase C-beta. Mutations at this locus have been associated with problems in platelet activation and aggregation. A related pseudogene exists on chromosome 2.[provided by RefSeq, Nov 2010]
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). [UniProt]
Calculated Mw	42 kDa
PTM	(Microbial infection) Deamidated at Gln-209 by Photorhabdus asymbiotica toxin PAU_02230, blocking GTP hydrolysis of heterotrimeric GNAQ or GNA11 and G-alphai (GNAI1, GNAI2 or GNAI3) proteins, thereby activating RhoA.

Images



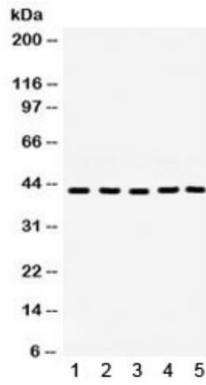
ARG10606 anti-GNAQ antibody ICC/IF image

Immunofluorescence: A431 cells stained with ARG10606 anti-GNAQ antibody (red). DAPI (blue) for nuclear staining.



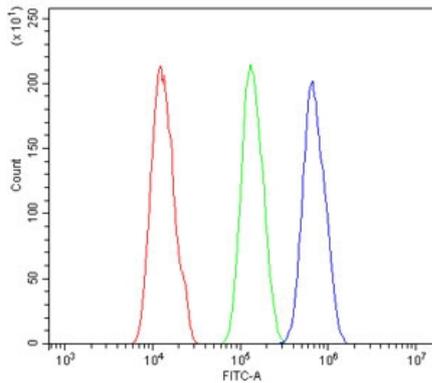
ARG10606 anti-GNAQ antibody IHC-P image

Immunohistochemistry: Formalin-fixed and Paraffin-embedded Human prostate cancer tissue stained with ARG10606 anti-GNAQ antibody.



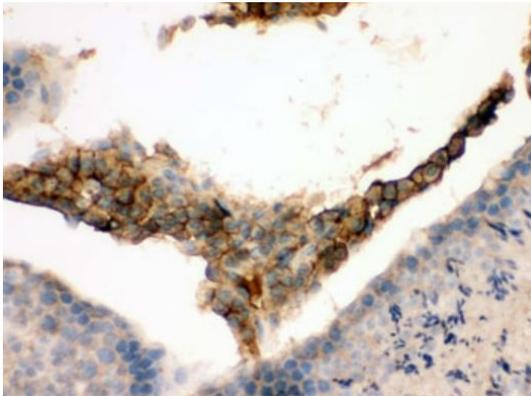
ARG10606 anti-GNAQ antibody WB image

Western blot: 1) Rat ovary, 2) Rat testis, 3) Mouse testis, 4) Human 22RV1 and 5) Human SKOV lysate stained with ARG10606 anti-GNAQ antibody.



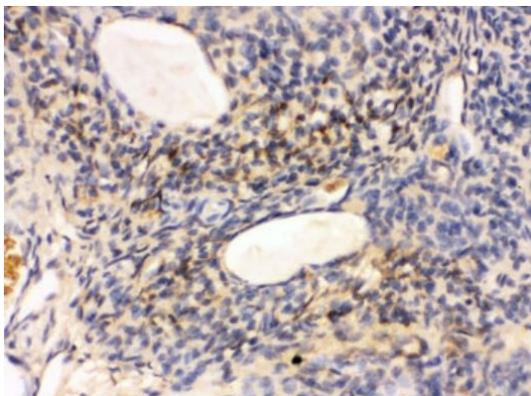
ARG10606 anti-GNAQ antibody FACS image

Flow Cytometry: A431 cells were blocked with goat sera and stained with ARG10606 anti-GNAQ antibody at $1 \mu\text{g}/10^6$ cells (blue); Cells alone (red); Isotype control (green).



ARG10606 anti-GNAQ antibody IHC-P image

Immunohistochemistry: Formalin-fixed and Paraffin-embedded Mouse testis tissue stained with ARG10606 anti-GNAQ antibody.



ARG10606 anti-GNAQ antibody IHC-P image

Immunohistochemistry: Formalin-fixed and Paraffin-embedded Rat ovary tissue stained with ARG10606 anti-GNAQ antibody.