

## 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
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 <sup>6</sup> 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

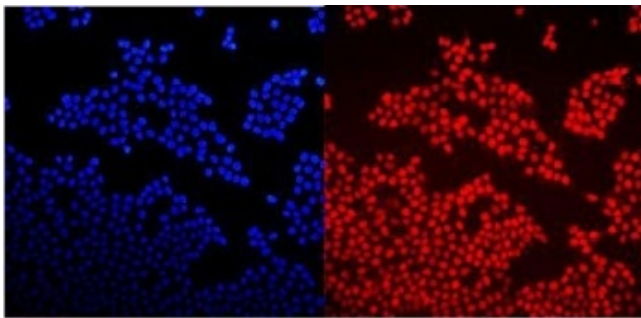
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.025% Sodium azide and 2.5% BSA.
Preservative	0.025% Sodium azide
Stabilizer	2.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, 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

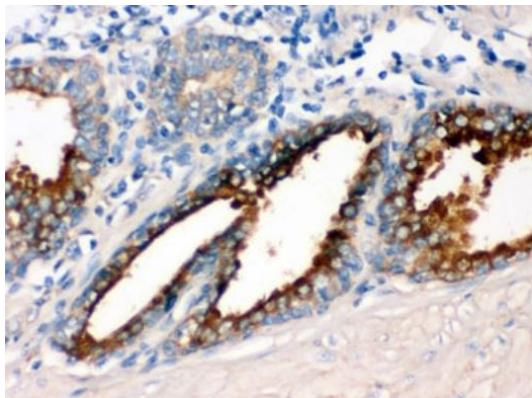
Gene Symbol	GNAQ
Gene Full Name	guanine nucleotide binding protein (G protein), q polypeptide
Background	This locus encodes a guanine nucleotide-binding protein. The encoded protein, an alpha subunit in the Gq class, couples a seven-transmembrane domain receptor to activation of phospholipase C-beta. 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



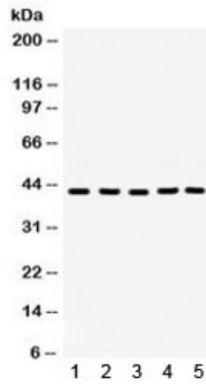
ARG10606 anti-GNAQ antibody ICC/IF image

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



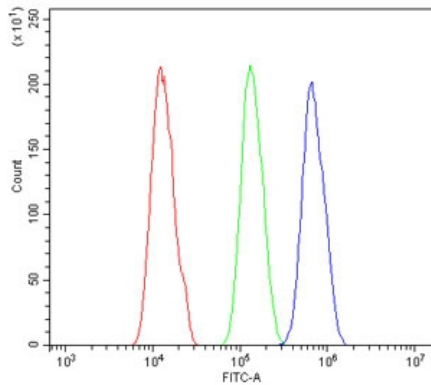
ARG10606 anti-GNAQ antibody IHC-P image

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



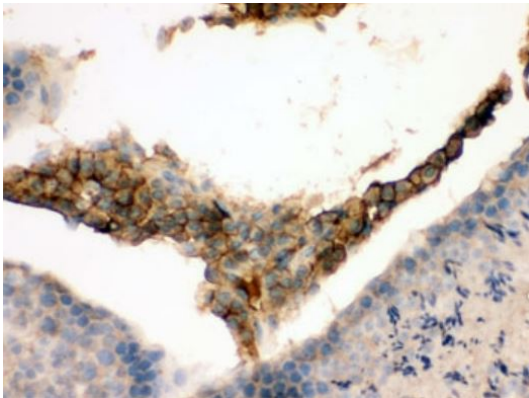
ARG10606 anti-GNAQ antibody WB image

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.



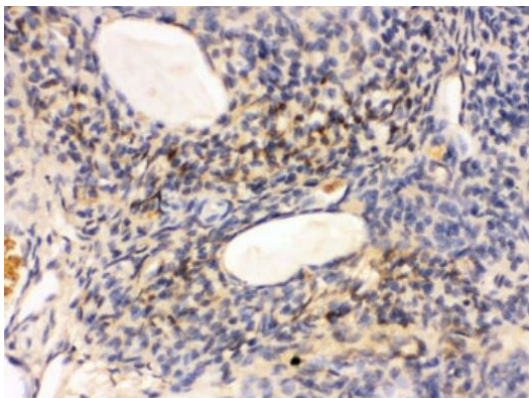
ARG10606 anti-GNAQ antibody FACS image

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.