

GNAQ Polyclonal Antibody | anti-GNAQ antibody

Anti-GNAQ Antibody

CATALOG # AAA46422	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
------------------------------	--	---

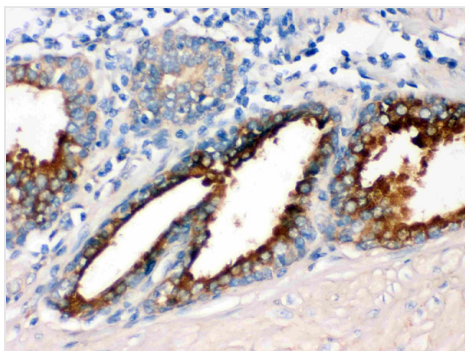
PRODUCT SYNONYMS

GNAQ; Polyclonal Antibody; Anti-GNAQ Antibody; Guanine nucleotide-binding protein G(q) subunit alpha; CMC1; G alpha Q; G protein 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; SWS; anti-GNAQ antibody

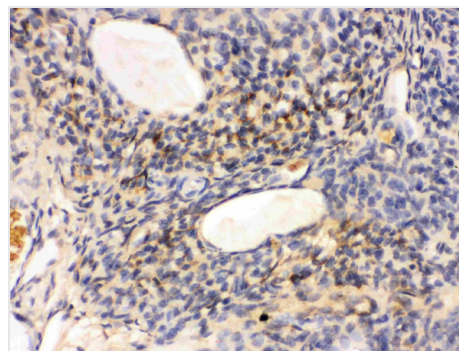
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	359
Applicable Applications for anti-GNAQ antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human GNAQ (102-138aa KYEHNKAHAQLVREVDVEKVSFENPYVDAIKSLWND), identical to the related mouse and rat sequences.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

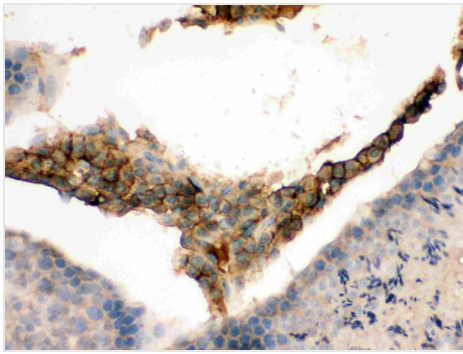
IMAGES



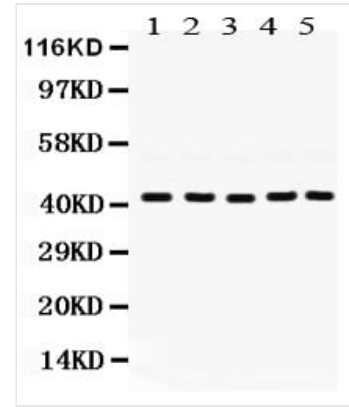
IHC (Immunohistochemistry)
Anti- GNAQ Picoband antibody, AAA46422, IHC(P)IHC(P): Human Prostatic Cancer Tissue



IHC (Immunohistochemistry)
Anti- GNAQ Picoband antibody, AAA46422, IHC(P)IHC(P): Rat Ovary Tissue



IHC (Immunohistochemistry)
Anti- GNAQ Picoband antibody, AAA46422, IHC(P)IHC(P): Mouse Testis Tissue



WB (Western Blot)
Anti- GNAQ Picoband antibody, AAA46422, Western blottingAll lanes: Anti GNAQ (AAA46422) at 0.5ug/mlLane 1: Rat Ovary Tissue Lysate at 50ugLane 2: Rat Testis Tissue Lysate at 50ugLane 3: Mouse Testis Tissue Lysate at 50ugLane 4: 22RV1 Whole Cell Lysate at 40ugLane 5: SKOV Whole Cell Lysate at 40ugPredicted bind size: 42KDObserved bind size: 42KD

ADDITIONAL INFORMATION

Related Product Information for anti-GNAQ antibody	Description: Rabbit IgG polyclonal antibody for Guanine nucleotide-binding protein G(q) subunit alpha(GNAQ) detection. Tested with WB, IHC-P in Human;Rat;Mouse. Background: Guanine nucleotide-binding protein G(q) subunit alpha is a protein that in humans is encoded by the GNAQ gene. Guanine nucleotide-binding proteins are a family of heterotrimeric proteins that couple cell surface, 7-transmembrane domain receptors to intracellular signaling pathways. Receptor activation catalyzes the exchange of GDP for GTP bound to the inactive G protein alpha subunit resulting in a conformational change and dissociation of the complex. The G protein alpha and beta-gamma subunits are capable of regulating various cellular effectors. Activation is terminated by a GTPase intrinsic to the G-alpha subunit. G-alpha-q is the alpha subunit of one of the heterotrimeric GTP-binding proteins that mediates stimulation of phospholipase C-beta. Mutations in this gene have been found associated to cases of Sturge-Weber syndrome and port-wine stains.
References	1. Dong Q, Shenker A, Way J, Haddad BR, Lin K, Hughes MR, McBride OW, Spiegel AM, Battey J (February 1997). "Molecular cloning of human G alpha q cDNA and chromosomal localization of the G alpha q gene (GNAQ) and a processed pseudogene".<i>Genomics</i> 30 (3): 470-75. 2. Shirley MD, Tang H, Gallione CJ, Baugher JD, Frelin LP, Cohen B, North PE, Marchuk DA, Comi AM, Pevsner J (May 23, 2013). "Sturge-Weber syndrome and port-wine stains caused by somatic mutation in GNAQ.". <i>The New England Journal of Medicine</i>368 (21): 1971-9.

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	42,142 Da
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/gnaq-antibody-immunohistochemistry-western-blot-elisa/46422>