

Datasheet for ABIN3043833
anti-GNAQ antibody (N-Term)

5 Images

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Overview

Quantity:	100 µg
Target:	GNAQ
Binding Specificity:	AA 102-138, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Guanine nucleotide-binding protein G(q) subunit alpha(GNAQ) detection. Tested with WB, IHC-P in Human,Rat,Mouse.
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.
Sequence:	KYEHNKAHAQ LVREVDVEKV SAFENPYVDA IKSLWND
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Guanine nucleotide-binding protein G(q) subunit alpha(GNAQ) detection. Tested with WB, IHC-P in Human,Rat,Mouse.</p> <p>Gene Name: guanine nucleotide binding protein (G protein), q polypeptide</p> <p>Protein Name: Guanine nucleotide-binding protein G(q) subunit alpha</p>

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: GNAQ

Alternative Name: GNAQ ([GNAQ Products](#))

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.

Synonyms: CMC1 antibody|G alpha Q antibody|G protein alpha Q antibody|G-ALPHA-q antibody|GAQ antibody|GNAQ antibody|GNAQ_HUMAN antibody|guanine nucleotide binding protein (G protein), q polypeptide antibody|Guanine nucleotide binding protein alpha q antibody|guanine nucleotide binding protein G protein q polypeptide antibody|Guanine nucleotide binding protein G q subunit alpha antibody|Guanine nucleotide-binding protein alpha-q antibody|Guanine nucleotide-binding protein G(q) subunit alpha antibody|SWS antibody

Gene ID: 2776

UniProt: [P50148](#)

Pathways: [JAK-STAT Signaling](#), [Thyroid Hormone Synthesis](#), [Myometrial Relaxation and Contraction](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.

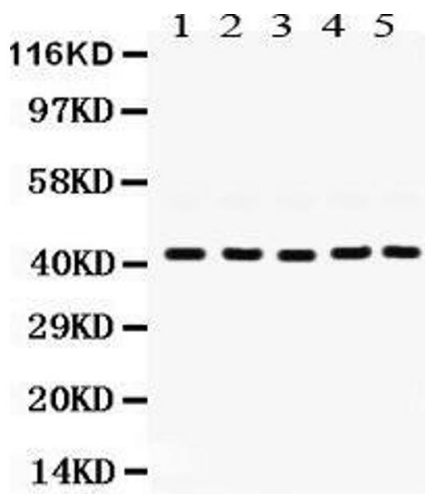
Application Details

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

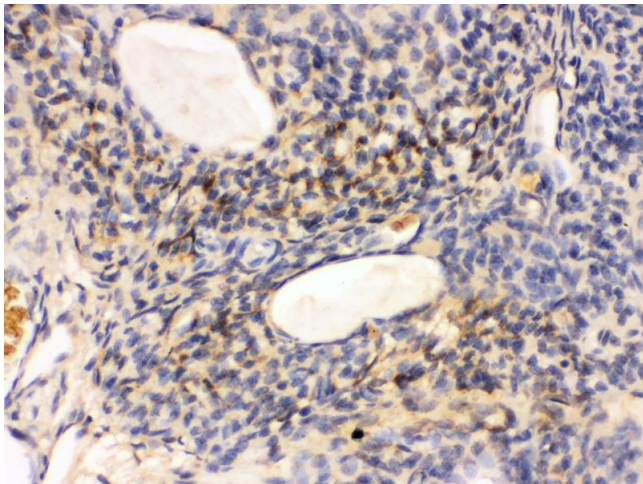
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Validation report #300029 for Immunohistochemistry (IHC)



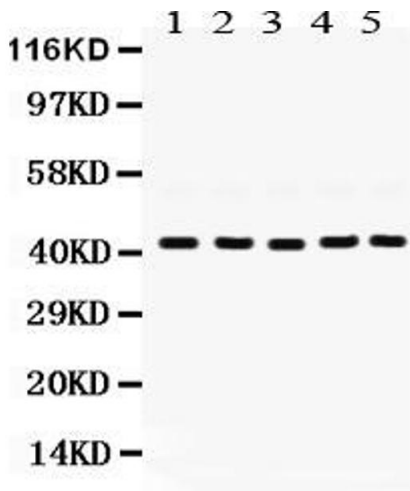
Western Blotting

Image 1.



Immunohistochemistry

Image 2. IHC(P): Rat Ovary Tissue



Western Blotting

Image 3. Anti- GNAQ Picoband antibody, Western blottingAll lanes: Anti GNAQ at 0.5ug/ml Lane 1: Rat Ovary Tissue Lysate at 50ug Lane 2: Rat Testis Tissue Lysate at 50ug Lane 3: Mouse Testis Tissue Lysate at 50ug Lane 4: 22RV1 Whole Cell Lysate at 40ug Lane 5: SKOV Whole Cell Lysate at 40ug Predicted bind size: 42KD Observed bind size: 42KD

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043833.