

Datasheet for ABIN6719526

anti-GNAQ antibody (N-Term)



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Quantity:	100 μg
Target:	GNAQ
Binding Specificity:	AA 102-138, N-Term
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This GNAQ antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS)
Product Details	
Purpose:	Anti-GNAQ Antibody Picoband® (monoclonal, 13H4)
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human GNAQ, identical
	to the related mouse and rat sequences.
Sequence:	KYEHNKAHAQ LVREVDVEKV SAFENPYVDA IKSLWND
Clone:	13H4
Isotype:	lgG2b
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-GNAQ Antibody Picoband® (monoclonal, 13H4) (ABIN6719526). Tested in Flow Cytometry,
	IHC, WB applications. This antibody reacts with Human, Monkey, Mouse, Rat. The brand
	Picoband indicates this is a premium antibody that guarantees superior quality, high affinity,

Product Details

	and strong signals with minimal background in Western blot applications. Only our best-		
	performing antibodies are designated as Picoband, ensuring unmatched performance.		
Purification:	Immunogen affinity purified.		
Target Details			
Target:	GNAQ		
Alternative Name:	GNAQ (GNAQ Products)		
Background:	Synonyms: Guanine nucleotide-binding protein G (q) subunit alpha, Guanine nucleotide-binding		
	protein alpha-q, GNAQ, GAQ		
	Tissue Specificity: Predominantly expressed in ovary, prostate, testis and colon. Down-		
	regulated in the peripheral blood lymphocytes (PBLs) of rheumatoid arthritis patients.		
	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.		
Molecular Weight:	42 kDa		
Gene ID:	2776		
UniProt:	P50148		
Pathways:	JAK-STAT Signaling, Thyroid Hormone Synthesis, Myometrial Relaxation and Contraction		
Application Details			
Application Notes:	Western blot, 0.1-0.5 μg/mL		
	Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL		
	Flow Cytometry (Fixed), 1-3 µg/1x10 ⁶ cells		
	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		

Application Details

	the G alpha q gene (GNAQ) and a processed pseudogene". Genomics 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.". The New England Journal of Medicine 368 (21): 1971-9.
Comment:	Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin
	sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of
	formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be
	determined by end users.
Restrictions:	For Research Use only
Handling	

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 4 mg Trehalose, 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.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.