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anti-GNA12 antibody (AA 112-270) (Biotin)



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Quantity:	100 μg
Target:	GNA12
Binding Specificity:	AA 112-270
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GNA12 antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Guanine nucleotide-binding protein subunit alpha-12 protein (112-270AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	GNA12
Alternative Name:	GNA12 (GNA12 Products)
Background:	Background: Guanine nucleotide-binding proteins (G proteins) are involved as modulators or
	transducers in various transmembrane signaling systems (PubMed:22609986,

PubMed:15525651, PubMed:15240885, PubMed:17565996, PubMed:12515866, PubMed:16787920, PubMed:16705036, PubMed:23762476, PubMed:27084452). Activates effector molecule RhoA by binding and activating RhoGEFs (ARHGEF12/LARG) (PubMed:15240885, PubMed:12515866, PubMed:16202387). GNA12-dependent Rho signaling subsequently regulates transcription factor AP-1 (activating protein-1) (By similarity). GNA12dependent Rho signaling also regulates protein phosphatese 2A activation causing dephosphorylation of its target proteins (PubMed:15525651, PubMed:17565996). Promotes tumor cell invasion and metastasis by activating RhoA/ROCK signaling pathway and upregulating proinflammatory cytokine production (PubMed:23762476, PubMed:16787920, PubMed:16705036, PubMed:27084452). Inhibits CDH1-mediated cell adhesion in process independent from Rho activation (PubMed:11976333, PubMed:16787920). Together with NAPA promotes CDH5 localization to plasma membrane (PubMed:15980433). May play a role in the control of cell migration through the TOR signaling cascade (PubMed:22609986). Aliases: G alpha 12 antibody, G alpha-12 antibody, G-protein subunit alpha-12 antibody, gep antibody, Gna12 antibody, GNA12_HUMAN antibody, guanine nucleotide binding protein (G protein) alpha 12 antibody, Guanine nucleotide binding protein alpha 12 subunit antibody, Guanine nucleotide-binding protein subunit alpha-12 antibody, MGC104623 antibody, MGC99644 antibody, NNX3 antibody, RMP antibody, WUGSC:H_GS165014.2 antibody

UniProt:

Q03113

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.	
Restrictions:	For Research Use only	

Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C

Storage Comment:

Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.