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Datasheet for ABIN7154734

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

Overview

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

Target Details

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). GNA12-dependent Rho signaling also regulates protein phosphatase 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 up-regulating 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

Handling

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