

Rabbit anti-Human GNA12 Polyclonal Antibody | anti-GNA12 antibody

GNA12 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA234775	Rabbit	Human	Immunofluorescence, Immunohistochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

GNA12; Polyclonal Antibody; GNA12 Antibody; Guanine nucleotide-binding protein subunit alpha-12; G alpha-12; G-protein subunit alpha-12; anti-GNA12 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	322
Applicable Applications for anti-GNA12 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant Human Guanine nucleotide-binding protein subunit alpha-12 protein (112-270AA)
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Immunogen Species	Homo sapiens (Human)
Research Area	Signal Transduction
Target Names	GNA12
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



IF (Immunofluorescence)

Immunofluorescence staining of HeLa cells with AAA234775 at 1:133, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4 degree C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



IHC (Immunohistochemistry)

IHC image of AAA234775 diluted at 1:400 and staining in paraffin-embedded human placenta tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



IHC (Immunohistochemistry)

IHC image of AAA234775 diluted at 1:400 and staining in paraffin-embedded human liver cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4 degree C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



WB (Western Blot)

Western BlotPositive WB detected in: Hela whole cell lysate, MCF-7 whole cell lysate, HepG2 whole cell lysate, A549 whole cell lysateAll lanes: GNA12 antibody at 5.8ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 45, 38, 35 KDaObserved band size: 45 KDa

ADDITIONAL INFORMATION

Related Product Information for anti-GNA12 antibody

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). 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).

Product Categories/Family for anti-GNA12 antibody

[Signal Transduction](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	540344584
NCBI GeneID	2768
NCBI Accession #	NP_001269370.1
NCBI GenBank Nucleotide #	NM_001282441.1
UniProt Accession #	Q03113; Q2T9L1; Q5PPR5; Q86UM8; Q8TD71; Q9UDU9; A4D204; B3KXS2; B7Z3F7
NCBI Official Full Name	guanine nucleotide-binding protein subunit alpha-12 isoform 3
NCBI Official Synonym Full Names	G protein subunit alpha 12
NCBI Official Symbol	GNA12
NCBI Official Synonym Symbols	RMP; gep; NNX3
NCBI Protein Information	guanine nucleotide-binding protein subunit alpha-12
UniProt Protein Name	Guanine nucleotide-binding protein subunit alpha-12
UniProt Gene Name	GNA12
UniProt Synonym Gene Names	G alpha-12; G-protein subunit alpha-12

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/gna12-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/234775>