

Goat Anti-GNA12 Antibody (internal region)
Purified Goat Polyclonal Antibody
Catalog # AF4240a**Specification**

Goat Anti-GNA12 Antibody (internal region) - Product Information

Application	WB, E
Primary Accession	Q03113
Other Accession	14673(mouse) , 81663(rat) , NP_031379.2 , NP_001269369.1 , NP_001269370.1 , NP_001280021.1
Reactivity	Human
Predicted	Human, Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5
Calculated MW	44279

Goat Anti-GNA12 Antibody (internal region) - Additional Information**Gene ID** 2768**Other Names**

GNA12; guanine nucleotide binding protein (G protein) alpha 12; NNX3; RMP; gep; G-protein subunit alpha-12; WUGSC:H_GS165O14.2; g alpha-12; guanine nucleotide-binding protein subunit alpha-12

Dilution

WB~~1:1000
E~~N/A

Format

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

Immunogen

Peptide with sequence C-KKHFPDFRGDPHR, from the internal region of the protein sequence according to [NP_031379.2](#); [NP_001269369.1](#); [NP_001269370.1](#); [NP_001280021.1](#).

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-GNA12 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-GNA12 Antibody (internal region) - Protein Information

Name GNA12**Function**

Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems (PubMed:12515866, PubMed:15240885, PubMed:15525651, PubMed:16705036, PubMed:16787920, PubMed:17565996, PubMed:22609986, PubMed:23762476, PubMed:27084452). Activates effector molecule RhoA by binding and activating RhoGEFs (ARHGEF12/LARG) (PubMed:12515866, PubMed:15240885, 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 pro-inflammatory cytokine production (PubMed:16705036, PubMed:16787920, PubMed:23762476, 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).

Cellular Location

Cell membrane; Lipid-anchor {ECO:0000250|UniProtKB:Q63210}. Lateral cell membrane; Lipid-anchor {ECO:0000250|UniProtKB:Q63210}. Cytoplasm. Note=CDH1 enhances cell membrane localization.

Goat Anti-GNA12 Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-GNA12 Antibody (internal region) - Images

AF4240a (1 µg/ml) staining of Human Placenta lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-GNA12 Antibody (internal region) - References

Translational analysis of mouse and human placental protein and mRNA reveals distinct molecular pathologies in human preeclampsia. Cox B, Sharma P, Evangelou AI, Whiteley K, Ignatchenko V, Ignatchenko A, Baczyk D, Czikk M, Kingdom J, Rossant J, Gramolini AO, Adamson SL, Kislinger T. Molecular & cellular proteomics : MCP 2011 Dec 10 (12): M111.012526.