

## **Product datasheet for TA362512**

### OriGene Technologies, Inc.

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# G protein alpha 12 (GNA12) Rabbit Polyclonal Antibody

### **Product data:**

**Product Type:** Primary Antibodies

Applications: WB

Reactivity: Human Host: Rabbit

**Clonality:** Polyclonal

**Immunogen:** The immunogen is a synthetic peptide directed towards the middle region of human GNA12

**Specificity: Expected reactivity**: Human

Formulation: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2%

sucrose.

Note that this product is shipped as lyophilized powder to China customers.

**Concentration:** lot specific

Purification:Affinity purifiedConjugation:Unconjugated

Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small

aliquots to prevent freeze-thaw cycles.

**Stability:** Shelf life: one year from despatch.

Predicted Protein Size: 41 kDa

**Gene Name:** G protein subunit alpha 12

Database Link: NP 001269370.1

Entrez Gene 2768 Human

Q03113





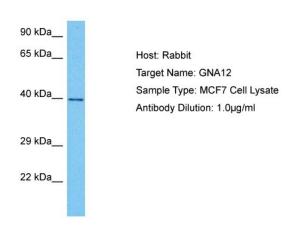
#### Background:

Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. Activates effector molecule RhoA by binding and activating RhoGEFs (ARHGEF12/LARG. GNA12-dependent Rho signaling subsequently regulates transcription factor AP-1 (activating protein-1) (By similarity). GNA12-dependent Rho signaling also regulates protein phosphatese 2A activation causing dephosphorylation of its target proteins. Promotes tumor cell invasion and metastasis by activating RhoA/ROCK signaling pathway and up-regulating proinflammatory cytokine production. Inhibits CDH1-mediated cell adhesion in process independent from Rho activation. Together with NAPA promotes CDH5 localization to plasma membrane. May play a role in the control of cell migration through the TOR signaling cascade.

Synonyms:

gep; MGC99644; MGC104623; NNX3; RMP; WUGSC:H\_GS165O14.2

## **Product images:**



Host: Rabbit Target Name: GNA12

Sample Tissue: Human MCF7 Whole Cell lysates

Antibody Dilution: 1ug/ml