

# GNAI3 antibody - middle region

Rabbit Polyclonal Antibody  
Catalog # AI14337

## Product Information

---

<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">P08754</a>
<b>Other Accession</b>	<a href="#">NM_006496</a> , <a href="#">NP_006487</a>
<b>Reactivity</b>	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Goat, Dog, Guinea Pig, Horse, Bovine, Sheep
<b>Predicted Host</b>	Human, Mouse, Rat, Zebrafish, Chicken, Guinea Pig
<b>Clonality</b>	Rabbit
<b>Calculated MW</b>	Polyclonal 40532

## Additional Information

---

<b>Gene ID</b>	2773
<b>Alias Symbol</b>	87U6, FLJ26559
<b>Other Names</b>	Guanine nucleotide-binding protein G(k) subunit alpha, G(i) alpha-3, GNAI3
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	Add 50 ul of distilled water. Final anti-GNAI3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
<b>Precautions</b>	GNAI3 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

---

<b>Name</b>	GNAI3
<b>Function</b>	Heterotrimeric guanine nucleotide-binding proteins (G proteins) function as transducers downstream of G protein-coupled receptors (GPCRs) in numerous signaling cascades. The alpha chain contains the guanine nucleotide binding site and alternates between an active, GTP-bound state and an inactive, GDP-bound state. Signaling by an activated GPCR promotes GDP release and GTP binding. The alpha subunit has a low GTPase activity that converts bound GTP to GDP, thereby terminating the signal (By similarity). Both GDP release and GTP hydrolysis are modulated by numerous regulatory proteins (PubMed: <a href="#">18434541</a> , PubMed: <a href="#">19478087</a> , PubMed: <a href="#">8774883</a> ). Signaling is mediated via effector proteins, such as

adenylate cyclase. Inhibits adenylate cyclase activity, leading to decreased intracellular cAMP levels (PubMed:[19478087](#)). Stimulates the activity of receptor-regulated K(+) channels (PubMed:[2535845](#)). The active GTP-bound form prevents the association of RGS14 with centrosomes and is required for the translocation of RGS14 from the cytoplasm to the plasma membrane. May play a role in cell division (PubMed:[17635935](#)). The active GTP-bound form activates the calcium permeant TRPC5 ion channels (PubMed:[37137991](#)).

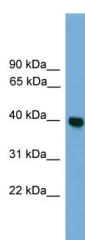
## Cellular Location

Cytoplasm. Cell membrane; Lipid-anchor. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome Note=Localizes in the centrosomes of interphase and mitotic cells Detected at the cleavage furrow and/or the midbody

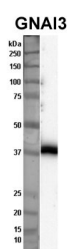
## References

- Didsbury J.R.,et al.FEBS Lett. 219:259-263(1987).  
Beals C.R.,et al.Proc. Natl. Acad. Sci. U.S.A. 84:7886-7890(1987).  
Itoh H.,et al.J. Biol. Chem. 263:6656-6664(1988).  
Codina J.,et al.J. Biol. Chem. 263:6746-6750(1988).  
Kim S.,et al.Proc. Natl. Acad. Sci. U.S.A. 85:4153-4157(1988).

## Images



WB Suggested Anti-GNAI3 Antibody Titration: 0.2-1 µg/ml  
ELISA Titer: 1:312500  
Positive Control: HepG2 cell lysate



Sample Type: Nthy-ori cell lysate  
(50ug) Primary Dilution: 1:1000  
Secondary Antibody: anti-rabbit HRP Secondary Dilution:  
1:2000 Image

See Immunoblot 2 Data and Customer Feedback tab for more information.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.