

GNAI3 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI14337

Specification

GNAI3 antibody - middle region - Product Information

Application	WB
Primary Accession	P08754
Other Accession	NM_006496 , NP_006487
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Goat, Sheep, Horse, Bovine, Guinea Pig, Dog
Predicted Host	Human, Mouse, Rat, Chicken, Guinea Pig
Clonality	Rabbit
Calculated MW	Polyclonal 39kDa KDa

GNAI3 antibody - middle region - Additional Information

Gene ID 2773

Alias Symbol **87U6, FLJ26559**
Other Names
Guanine nucleotide-binding protein G(k) subunit alpha, G(i) alpha-3, GNAI3

Format

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

Reconstitution & Storage

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.

Precautions

GNAI3 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

GNAI3 antibody - middle region - Protein Information

Name GNAI3

Function

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. Both GDP release and GTP hydrolysis are modulated by numerous regulatory proteins (PubMed:18434541, PubMed:<a href="http://www.uniprot.org/citations/19478087"

target="_blank">19478087, PubMed:8774883). 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).

Cellular Location

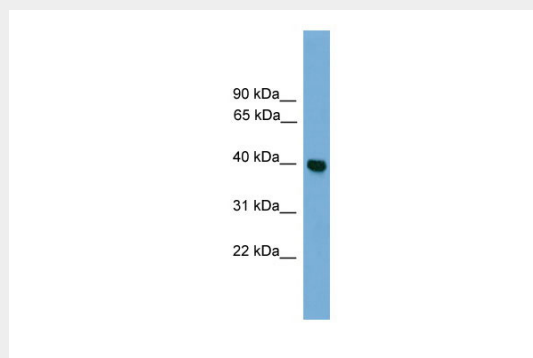
Cytoplasm. Cell membrane; Lipid-anchor. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome Note=Localizes in the centrosomes of interphase and mitotic cells Detected at the cleavage furrow and/or the midbody

GNAI3 antibody - middle region - Protocols

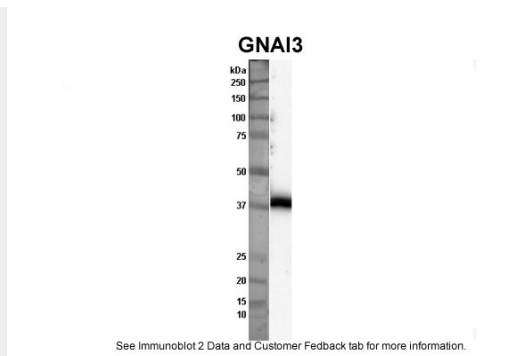
Provided below are standard protocols that you may find useful for product applications.

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

GNAI3 antibody - middle region - 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

GNAI3 antibody - middle region - 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).