10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Gai2 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10194

Specification

Gai2 Antibody - Product Information

Application	**WB**
Primary Accession	P04899
Other Accession	AAM12620
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**40451**

Gai2 Antibody - Additional Information

Gene ID 2771

Application & Usage	**Western blot (at 0.5-4 µg/ml) and immunoprecipitation. However, the optimal conditions should be determined individually.**

Other Names
guanine nucleotide binding protein G, GNAI2B, guanine nucleotide binding protein

Target/Specificity
Gai2

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) affinity-purified rabbit anti-Gαi2 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
Gai2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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Gai2 Antibody - Protein Information

Name GNAI2

Synonyms GNAI2B

Function
Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. The G(i) proteins are involved in hormonal regulation of adenylate cyclase: they inhibit the cyclase in response to beta- adrenergic stimuli. May play a role in cell division.

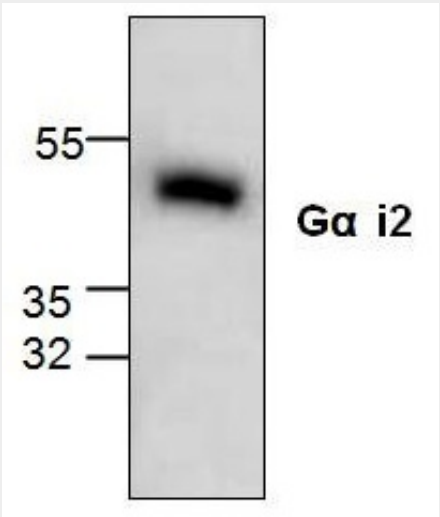
Cellular Location
Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cell membrane. Membrane; Lipid-anchor. Note=Localizes in the centrosomes of interphase and mitotic cells. Detected at the cleavage furrow and/or the midbody

Gai2 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Gai2 Antibody - Images



Western blot analysis of Gαi2 expression in 3T3 cell lysate.

Gai2 Antibody - Background

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Gαi2 is a 40-41 kDa alpha-subunit of heterotrimeric protein that shares sequence homology with Gαi3 and Gαi1. All these G proteins can be ADP-ribosylated at the carboxy terminal Cys of the CAAX sequence, interfering with receptor coupling. Gαi2 is expressed widely in tissues and cell lines. Activation of PLC-β by Gαi-coupled receptors is the result of release of Gβg subunits from Gαi. Gαi2 regulates potassium channel activation. Mutation at Arg179 has been identified in tumors. This and the Q205L mutant inhibit adenylyl cyclase.