10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

GNAS Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13065b

Specification

GNAS Antibody (C-term) - Product Information

Application	**IF, WB, IHC-P, FC,E**
Primary Accession	Q5FWY2
Other Accession	P29797, Q8R4A8, P63095, P63094, P63092, P04896, Q63803, Q6R0H7, Q5JWF2
Reactivity	**Human**
Predicted	**Mouse, Rat, Bovine, Hamster, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**287-315**

GNAS Antibody (C-term) - Additional Information

Gene ID 2778

Other Names
GNAS

Target/Specificity
This GNAS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 287-315 amino acids from the C-terminal region of human GNAS.

Dilution
IF~~1:10~50
WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

Precautions
GNAS Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GNAS Antibody (C-term) - Protein Information

Name GNAS {ECO:0000313|EMBL:AAH89157.2}

Function Guanine nucleotide-binding proteins (G proteins) function as transducers in numerous signaling pathways controlled by G protein- coupled receptors (GPCRs).

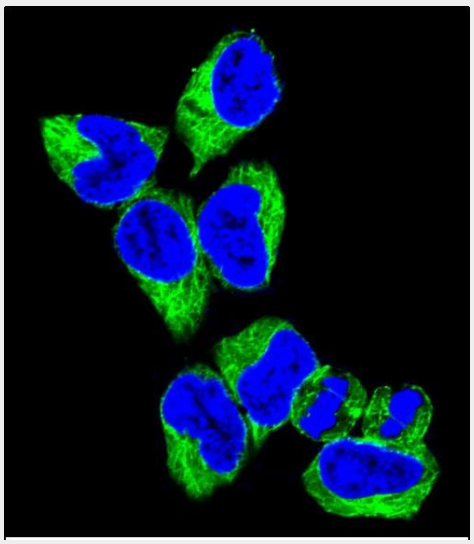
Cellular Location
Cell membrane {ECO:0000256|ARBA:ARBA00004193}; Lipid-anchor {ECO:0000256|ARBA:ARBA00004193}

GNAS Antibody (C-term) - 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

GNAS Antibody (C-term) - Images



Confocal immunofluorescent analysis of GNAS Antibody (C-term)(Cat#AP13065b) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).

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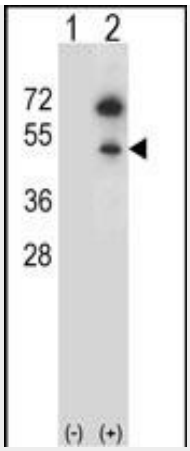
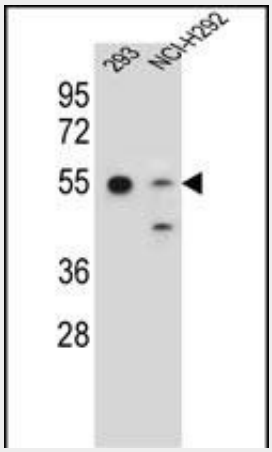
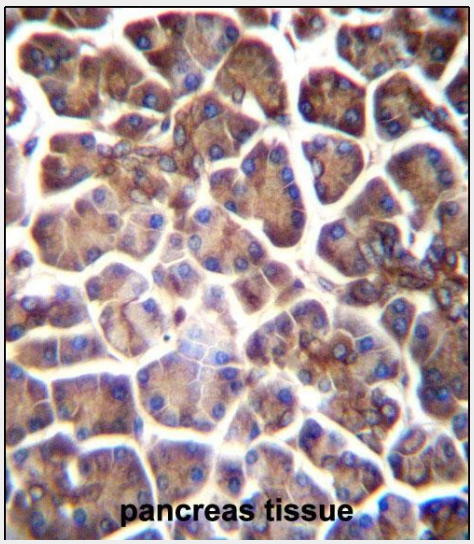


Western blot analysis of GNAS (arrow) using rabbit polyclonal GNAS Antibody (C-term) (Cat. #AP13065b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the GNAS gene.



GNAS Antibody (C-term) (Cat. #AP13065b) western blot analysis in 293,NCI-H292 cell line lysates (35ug/lane).This demonstrates the GNAS antibody detected the GNAS protein (arrow).



GNAS Antibody (C-term) (Cat. #AP13065b)immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of GNAS Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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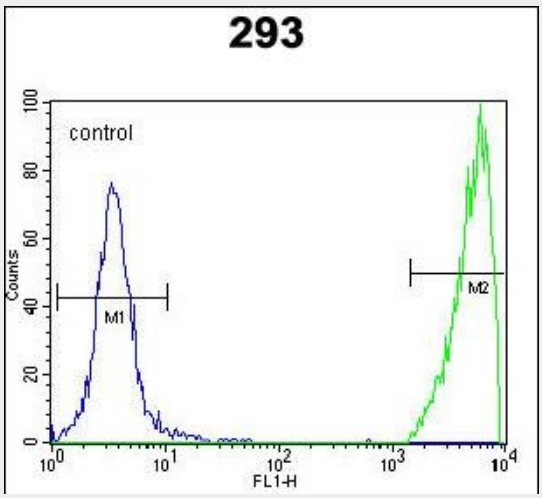

GNAS Antibody (C-term) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

GNAS Antibody (C-term) - Background

Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. The Gs protein is involved in hormonal regulation of adenylate cyclase: it activates the cyclase in response to beta-adrenergic stimuli.
Alternative splicing of downstream exons of the GNAS gene is observed, which results in different forms of the stimulatory G protein alpha subunit, a key element of the classical signal transduction pathway linking receptor-ligand interactions with the activation of adenylyl cyclase and a variety of cellular reponses. Multiple transcript variants have been found for this gene, but the full-length nature and/or biological validity of some variants have not been determined. Mutations in this gene result in pseudohypoparathyroidism type 1a, pseudohypoparathyroidism type 1b, Albright hereditary osteodystrophy, pseudopseudohypoparathyroidism, McCune-Albright syndrome, progressive osseus heteroplasia, polyostotic fibrous dysplasia of bone, and some pituitary tumors.