

GNAS Rabbit pAb

Catalog No.: A5546

3 Publications

Basic Information

Observed MW

50kDa

Calculated MW

28kDa/44kDa/45kDa/77kDa/109kDa/111kDa

Category

Primary antibody

Applications

ELISA,WB,IF/ICC,IP

Cross-Reactivity

Human, Mouse, Rat

Background

This locus has a highly complex imprinted expression pattern. It gives rise to maternally, paternally, and biallelically expressed transcripts that are derived from four alternative promoters and 5' exons. Some transcripts contain a differentially methylated region (DMR) at their 5' exons, and this DMR is commonly found in imprinted genes and correlates with transcript expression. An antisense transcript is produced from an overlapping locus on the opposite strand. One of the transcripts produced from this locus, and the antisense transcript, are paternally expressed noncoding RNAs, and may regulate imprinting in this region. In addition, one of the transcripts contains a second overlapping ORF, which encodes a structurally unrelated protein - Alex. Alternative splicing of downstream exons is also 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 responses. Multiple transcript variants encoding different isoforms have been found for this gene. Mutations in this gene result in pseudohypoparathyroidism type 1a, pseudohypoparathyroidism type 1b, Albright hereditary osteodystrophy, pseudopseudohypoparathyroidism, McCune-Albright syndrome, progressive osseous heteroplasia, polyostotic fibrous dysplasia of bone, and some pituitary tumors.

Recommended Dilutions

WB	1:500 - 1:2000
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IF/ICC	1:50 - 1:200
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IP	0.5µg-4µg antibody for 400µg-600µg extracts of whole cells
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Immunogen Information

Gene ID

2778

Swiss Prot

O95467/P63092/P84996/Q5JWF2

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human GNAS (NP_000507.1).

Synonyms

AHO; GSA; GSP; POH; GPSA; NESP; SCG6; SgVI; GNAS1; PITA3; C20orf45; GNAS

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

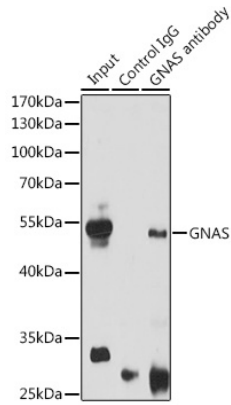
Affinity purification

Storage

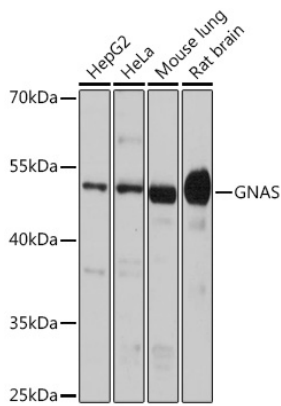
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH7.3.

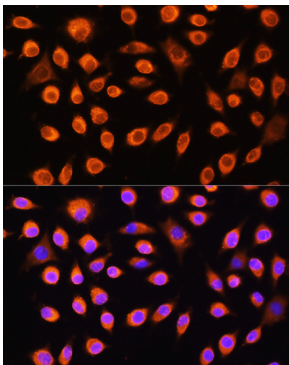
Validation Data



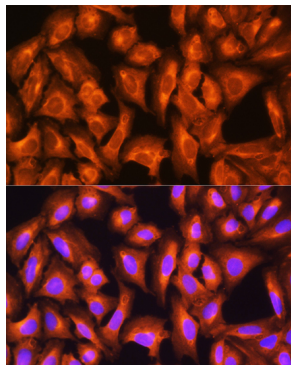
Immunoprecipitation analysis of 200 µg extracts of Mouse brain cells using 3 µg GNAS antibody (A5546). Western blot was performed from the immunoprecipitate using GNAS antibody (A5546) at a dilution of 1:1000.



Western blot analysis of various lysates using GNAS Rabbit pAb (A5546) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.



Immunofluorescence analysis of L929 cells using GNAS Rabbit pAb (A5546) at dilution of 1:100. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U2OS cells using GNAS Rabbit pAb (A5546) at dilution of 1:100. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.