

## Rabbit GNAS Polyclonal Antibody | anti-GNAS antibody

GNAS antibody - N-terminal region

| CATALOG # | HOST   | REACTIVITY                                             | APPLICATIONS |
|-----------|--------|--------------------------------------------------------|--------------|
| AAA198989 | Rabbit | Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat | Western Blot |

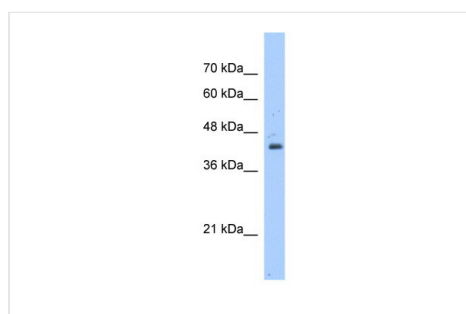
### PRODUCT SYNONYMS

GNAS; Polyclonal Antibody; GNAS antibody - N-terminal region; anti-GNAS antibody

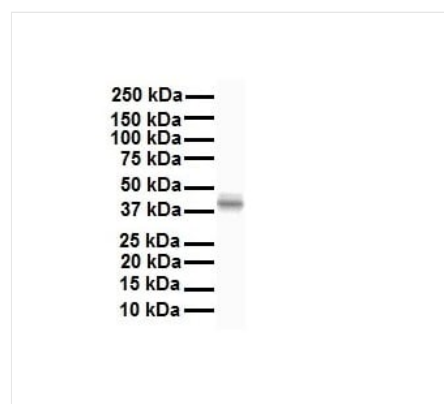
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                       |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                |
| Reactivity                                     | Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat                                                                                                |
| Clonality                                      | Polyclonal                                                                                                                                            |
| Purity/Purification                            | Protein A purified                                                                                                                                    |
| Form/Format                                    | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.                                                     |
| Sequence                                       | Synthetic peptide with the following region: NP ENQFRVDYIL SVMNVPDFDF PPEFYEHAKA<br>LWEDEGVRAC YERSNEYQ                                               |
| Sequence Length                                | 394                                                                                                                                                   |
| Applicable Applications for anti-GNAS antibody | WB (Western Blot)                                                                                                                                     |
| Homology                                       | Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 93%; Rabbit: 100%; Rat: 100%                                                 |
| Immunogen                                      | The immunogen is a synthetic peptide directed towards the N terminal region of human GNAS                                                             |
| Preparation and Storage                        | For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |

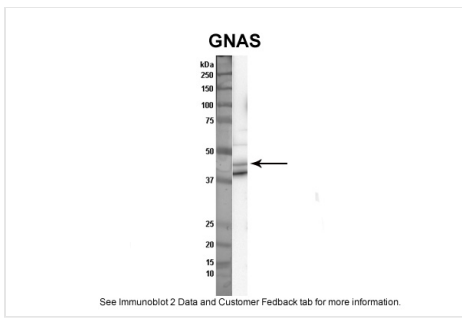
### IMAGES


**WB (Western Blot)**

WB Suggested Anti-GNAS Antibody Titration: 1.25ug/ml  
Positive Control: Jurkat cell lysate  
There is BioGPS gene expression data showing that GNAS is expressed in Jurkat


**WB (Western Blot)**

WB Suggested Anti-GNAS antibody Titration: 1 ug/ml  
Sample Type: Human MCF7



#### WB (Western Blot)

Sample Type: human thyroidSample Type: Nthy-ori cell lysate (50ug)Primary  
Dilution: 1:1000Secondary Antibody: anti-rabbit HRPSecondary  
Dilution: 1:2000Image Submitted By: Anonymous

## ADDITIONAL INFORMATION

### Related Product Information for anti-GNAS antibody

This is a rabbit polyclonal antibody against GNAS. It was validated on Western Blot using a cell lysate as a positive control.

**Target Description:** Mutations in GNAS 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. This gene has a highly complex imprinted expression pattern. It encodes maternally, paternally, and biallelically expressed proteins which are derived from alternatively spliced transcripts with alternate 5' exons. Each of the upstream exons is within a differentially methylated region, commonly found in imprinted genes. However, the close proximity (14 kb) of two oppositely expressed promoter regions is unusual. In addition, one of the alternate 5' exons introduces a frameshift relative to the other transcripts, resulting in one isoform which is structurally unrelated to the others. An antisense transcript exists, and may regulate imprinting in this region. Mutations in this gene result in pseudohypoparathyroidism type 1a (PHP1a), which has an atypical autosomal dominant inheritance pattern requiring maternal transmission for full penetrance. There are RefSeqs representing four transcript variants of this gene. Other transcript variants including four additional exons have been described; however, their full length sequences have not been determined. 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 contains 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 exists, and this antisense transcript and one of the transcripts are paternally expressed, produce 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 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.

### Product Categories/Family for anti-GNAS antibody

[Polyclonal](#); [Lymphocyte Signaling](#); [Drugs and Drug Metabolism](#); [Epigenetics](#); [Disease Related](#); [Tissue Specific & Cell Marker](#); [GPCR](#); [Methylation](#)

## NCBI AND UNIPROT INFORMATION

|                           |                                |
|---------------------------|--------------------------------|
| NCBI GI #                 | 4504047                        |
| NCBI GeneID               | 2778                           |
| NCBI Accession #          | NP_000507                      |
| NCBI GenBank Nucleotide # | NM_000516                      |
| UniProt Accession #       | P63092; O95467; P84996; Q5JWF2 |
| Molecular Weight          | 46kDa                          |

|                                  |                                                                      |
|----------------------------------|----------------------------------------------------------------------|
| NCBI Official Full Name          | protein GNAS isoform GNASL                                           |
| NCBI Official Synonym Full Names | GNAS complex locus                                                   |
| NCBI Official Symbol             | GNAS                                                                 |
| NCBI Official Synonym Symbols    | AHO; GSA; GSP; POH; GPSA; NESP; SCG6; SgVI; GNAS1; PITA3; C20orf45   |
| NCBI Protein Information         | protein ALEX; protein GNAS; protein SCG6 (secretogranin VI)          |
| UniProt Protein Name             | Guanine nucleotide-binding protein G(s) subunit alpha isoforms short |
| UniProt Gene Name                | <b>GNAS</b>                                                          |
| UniProt Synonym Gene Names       | GNAS1; GSP                                                           |
| UniProt Entry Name               | GNAS2_HUMAN                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gnas-antibody-western-blot-elisa/198989>