

## Rabbit GNAS Polyclonal Antibody | anti-GNAS antibody

GNAS Polyclonal Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA168826 | Rabbit | Human, Mouse, Rat | Immunohistochemistry, Western Blot, ELISA |

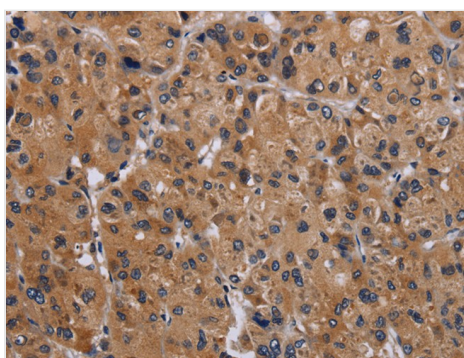
### PRODUCT SYNONYMS

GNAS; Polyclonal Antibody; GNAS Polyclonal Antibody; AHO; GSA; GSP; POH; GPSA; NESP; GNAS1; PHP1A; PHP1B; PHP1C; C20orf45; anti-GNAS antibody

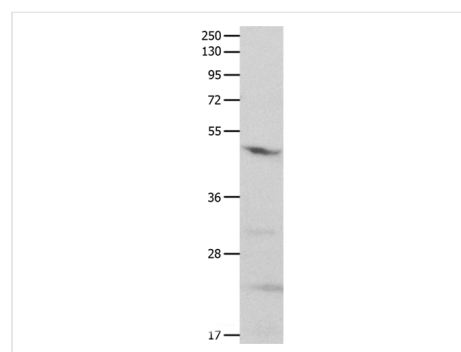
### PRODUCT SPECIFICATIONS

|                                                |                                                                                           |
|------------------------------------------------|-------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                    |
| Reactivity                                     | Human, Mouse, Rat                                                                         |
| Clonality                                      | Polyclonal                                                                                |
| Isotype                                        | IgG                                                                                       |
| Purity/Purification                            | Antigen affinity purification                                                             |
| Concentration                                  | 1mg/mL (varies by lot)                                                                    |
| Sequence Length                                | 1144                                                                                      |
| Applicable Applications for anti-GNAS antibody | IHC (Immunohistochemistry), WB (Western Blot), ELISA                                      |
| Immunogen                                      | Recombinant protein of human GNAS                                                         |
| Buffer                                         | PBS with 0.05% sodium azide, 50% glycerol, pH7.3                                          |
| Preparation and Storage                        | Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles. |

### IMAGES


**IHC (Immunohistochemistry)**

Immunohistochemistry of paraffin-embedded Human liver cancer using GNAS Polyclonal Antibody at dilution of 1:30


**WB (Western Blot)**

Western Blot analysis of Mouse brain tissue using GNAS Polyclonal Antibody at dilution of 1:500

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-GNAS antibody | 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 reponses. 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 osseus heteroplasia, polyostotic fibrous dysplasia of bone, and some pituitary tumors. |
| Product Categories/Family for anti-GNAS antibody   | Cancer; Epigenetics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                                          |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 253970435                                                                                                                                                                                                                                                                                |
| NCBI GeneID                      | 24896                                                                                                                                                                                                                                                                                    |
| NCBI Accession #                 | NP_068617.6                                                                                                                                                                                                                                                                              |
| NCBI GenBank Nucleotide #        | NM_021845.5                                                                                                                                                                                                                                                                              |
| Molecular Weight                 | 45,664 Da                                                                                                                                                                                                                                                                                |
| NCBI Official Full Name          | GNAS isoform XLas                                                                                                                                                                                                                                                                        |
| NCBI Official Synonym Full Names | GNAS complex locus                                                                                                                                                                                                                                                                       |
| NCBI Official Symbol             | Gnas                                                                                                                                                                                                                                                                                     |
| NCBI Official Synonym Symbols    | Gnas1; Gnpas; Nesp55                                                                                                                                                                                                                                                                     |
| NCBI Protein Information         | ALEX; GNAS; NESP55; G-alpha-8; GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus; adenylate cyclase-stimulating G alpha protein; gnas {ECO:0000312 RGD:2716}; guanine nucleotide binding protein alpha s; guanine nucleotide-binding protein G-s, alpha subunit |
| UniProt Protein Name             | Guanine nucleotide-binding protein G(s) subunit alpha isoforms XLas                                                                                                                                                                                                                      |
| UniProt Gene Name                | Gnas                                                                                                                                                                                                                                                                                     |
| UniProt Synonym Gene Names       | XLalphas                                                                                                                                                                                                                                                                                 |
| UniProt Entry Name               | GNAS1_RAT                                                                                                                                                                                                                                                                                |

**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-immunohistochemistry-western-blot-elisa/168826>