

**GNAS Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18552b****Specification**

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**GNAS Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">O95467</a>
Other Accession	<a href="#">NP_057676.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	28029
Antigen Region	217-244

**GNAS Antibody (C-term) - Additional Information****Gene ID** 2778**Other Names**

Neuroendocrine secretory protein 55, NESP55, LHAL tetrapeptide, GPIPIRRH peptide, GNAS ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=4392](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=4392))  
HGNC:4392

**Target/Specificity**

This GNAS antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 217-244 amino acids from the C-terminal region of human GNAS.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**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 ([HGNC:4392](#))

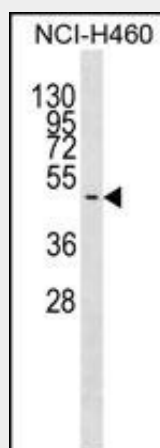
**Cellular Location**

Cytoplasmic vesicle, secretory vesicle. Secreted. Note=Neuroendocrine secretory granules.

**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 Cytometry](#)
- [Cell Culture](#)

**GNAS Antibody (C-term) - Images**

GNAS Antibody (C-term) (Cat. #AP18552b) western blot analysis in NCI-H460 cell line lysates (35ug/lane). This demonstrates the GNAS antibody detected the GNAS protein (arrow).

**GNAS Antibody (C-term) - 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.

#### **GNAS Antibody (C-term) - References**

Idziaszczyk, S., et al. Cancer Genet. Cytogenet. 202(1):67-69(2010)  
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Tominaga, E., et al. Gynecol. Oncol. 118(2):160-166(2010)  
Park, C.H., et al. Ann. Clin. Lab. Sci. 40(3):261-266(2010)  
Cross, D.S., et al. BMC Genet. 11, 51 (2010) :