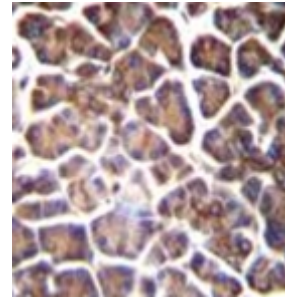


**AP51874PU-N****Polyclonal Antibody to GNAS (C-term) - Aff - Purified**

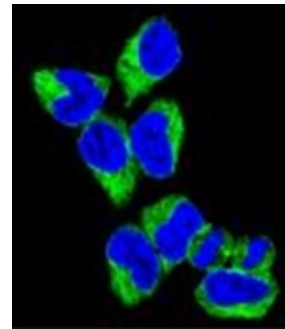
<b>Quantity:</b>	0.4 ml
<b>Concentration:</b>	lot specific
<b>Background:</b>	<p>Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. The Gs protein is involved in hormonal regulation of adenylate cyclase: it activates 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 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 osseous heteroplasia, polyostotic fibrous dysplasia of bone, and some pituitary tumors.</p>
<b>Uniprot ID:</b>	<a href="#">Q5FWY2</a>
<b>NCBI:</b>	<a href="#">9606</a>
<b>Host / Isotype:</b>	Rabbit / Ig
<b>Immunogen:</b>	KLH conjugated synthetic peptide between 286-315 amino acids from the C-terminal region of Human GNAS
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction <b>Purification:</b> Protein A column, followed by peptide affinity purification <b>Buffer System:</b> PBS containing 0.09% (W/V) Sodium Azide as preservative
<b>Applications:</b>	<b>ELISA:</b> 1/1000. <b>Western Blot:</b> 1/100-1/500. <b>Flow Cytometry:</b> 1/10-1/50. <b>Immunofluorescence:</b> 1/10-1/50. <b>Immunohistochemistry on Paraffin Sections:</b> 1/10-1/50. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognizes Human GNAS (C-term).
<b>Add. Information:</b>	<b>Molecular Weight:</b> 44;250 Da
<b>Storage:</b>	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**Pictures:**

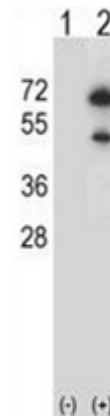
Immunohistochemistry analysis in formalin fixed and paraffin embedded human pancreas tissue reacted with GNAS Antibody (C-term) Cat.-No AP51874PU-N followed by peroxidase conjugation of the secondary antibody and DAB staining.



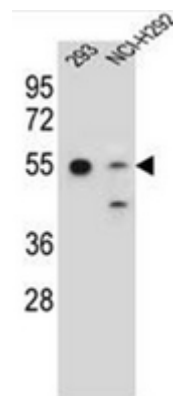
Confocal immunofluorescent analysis of GNAS Antibody (C-term) Cat.-No AP51874PU-N with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



Western blot analysis of GNAS (arrow) using GNAS Antibody (C-term) Cat.-No AP51874PU-N. 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the GNAS gene.



Western blot analysis of GNAS Antibody (C-term) Cat.-No AP51874PU-N in 293, NCI-H292 cell line lysates (35ug/lane). This demonstrates the GNAS antibody detected the GNAS protein (arrow).



Flow cytometric analysis of 293 cells using GNAS Antibody (C-term) Cat.-No AP51874PU-N (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

