



# Anti-GNAS (aa 78-91) polyclonal antibody (DPABH-04425)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	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.
<b>Specificity</b>	DPABH-04425 is expected to recognize all three reported isoforms NP_000507.1, NP_001070956.1 and NP_536350.2.
<b>Immunogen</b>	Synthetic peptide: C-QAARSNSDGEKATK, corresponding to internal sequence amino acids 78-91 of Human G protein alpha S (NP_000507.1).
<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Mouse, Rat, Human
<b>Purification</b>	Immunogen affinity purified
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB

<b>Format</b>	Liquid
<b>Size</b>	200 µl
<b>Buffer</b>	Constituents: 0.5% BSA, Tris buffered saline, pH 7.3
<b>Preservative</b>	0.02% Sodium Azide
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">GNAS GNAS complex locus [ Homo sapiens ]</a>
<b>Official Symbol</b>	GNAS
<b>Synonyms</b>	GNAS; GNAS complex locus; AHO; GSA; GSP; POH; GPSA; NESP; GNAS1; PHP1A; PHP1B; PHP1C; C20orf45; protein ALEX; secretogranin VI; extra large alphas protein; neuroendocrine secretory protein; guanine nucleotide regulatory protein; alternative gene product encoded by XL-exon; adenylate cyclase-stimulating G alpha protein; guanine nucleotide-binding protein G(s) subunit alpha isoforms XLas; guanine nucleotide binding protein (G protein), alpha stimulating activity polypeptide 1;
<b>Entrez Gene ID</b>	<a href="#">2778</a>
<b>Protein Refseq</b>	<a href="#">NP_000507.1</a>
<b>UniProt ID</b>	<a href="#">P63092</a>
<b>Pathway</b>	Adrenergic signaling in cardiomyocytes; Alcoholism; Amoebiasis; Amphetamine addiction
<b>Function</b>	G-protein beta/gamma-subunit complex binding; G-protein beta/gamma-subunit complex binding; GTP binding; GTPase activity