



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

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

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

GENE INFORMATION

Gene Name	GNAS GNAS complex locus [Homo sapiens]
Official Symbol	GNAS
Synonyms	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;
Entrez Gene ID	2778
Protein Refseq	NP_000507.1
UniProt ID	P63092
Pathway	Adrenergic signaling in cardiomyocytes; Alcoholism; Amoebiasis; Amphetamine addiction
Function	G-protein beta/gamma-subunit complex binding; G-protein beta/gamma-subunit complex binding; GTP binding; GTPase activity