

GNAS mouse monoclonal antibody (hybridoma)

Catalog # H00002778-M

Size Up to 5 Clones

Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant GNAS.
Immunogen	GNAS (NP_000507.1, 1 a.a. ~ 394 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MGCLGNSKTEDQRNEEKAQREANKKIEKQLQKDKQVYRATHRLLLLGAGESGKSTVKQMRILHV NGFN GEGGEEDPQAARSNSDGEKATKVQDIKNNLKEAIETVAAMSNLVPPVELANPENQFRVDY ILSVMNVPDFDFPPEFYEHAKALWEDEGVRACYERSNEYQLIDCAQYFLDKIDVIKQADYVPSDQ DLLRCRVLTS GIFETKFQVDKVNFMFDVGGQRDERRKWIQCFNDVTAIFV VASSSYNMVIREDN QTNRLQEALNLFKSIWNNRWLRTISVILFLNKQDLLAEKVLGKSKIEDYFPEFARYTTPEDATPEP GEDPRVTRAKYFIRDEFRLISTASGDGRHYCYPHFTCAVDTENIRRVFNDCRDIQRMHLRQYELL
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody reactivity and specificity confirmed by ELISA and Western Blot.
Deliverables	Up to 5 positive hybridoma clones will be delivered to customer in the cryotube format.
Note	Customer should check the viability of the hybridomas within one month from the date of receipt. Fee -for-service of long term hybridoma storage can be performed upon customer's request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — GNAS

Entrez GeneID	2778
GeneBank Accession#	NM_000516.3
Protein Accession#	NP_000507.1
Gene Name	GNAS
Gene Alias	AHO, C20orf45, GNAS1, GPSA, GSA, GSP, MGC33735, NESP, PHP1A, PHP1B, POH, dJ309 F20.1.1, dJ806M20.3.3
Gene Description	GNAS complex locus
Omim ID	102200 103580 139320 166350 174800 603233
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq]
Other Designations	OTTHUMP00000031740 OTTHUMP00000031756 OTTHUMP00000196026 OTTHUMP00000196030 adenylate cyclase-stimulating G alpha protein guanine nucleotide binding protein (G protein), alpha stimulating activity polypeptide 1 guanine nucleotide regulatory protein neuroe

Publication Reference

- [G1 protein phosphorylation as marker for scoliosis progression, methods of increasing gipcr signaling subjects.](#)

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Application: WB, ELISA, Human, PBMCs, Myoblasts

Pathway

- [Calcium signaling pathway](#)
- [Gap junction](#)
- [GnRH signaling pathway](#)
- [Long-term depression](#)
- [Melanogenesis](#)
- [Taste transduction](#)
- [Vascular smooth muscle contraction](#)
- [Vibrio cholerae infection](#)

Disease

- [Adenocarcinoma](#)
- [Adenoma](#)
- [Adrenal Cortex Neoplasms](#)
- [Anorexia Nervosa](#)
- [Asthma](#)
- [Atherosclerosis](#)
- [Autonomic Nervous System Diseases](#)
- [Bile Duct Neoplasms](#)
- [Body Weight](#)
- [Bone Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bulimia](#)

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- [Carcinoma](#)
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- [Obesity](#)
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- [Syncope](#)
- [Syndrome](#)
- [Takotsubo Cardiomyopathy](#)

- [Thrombosis](#)
- [Thyroid Nodule](#)
- [Thyrotoxicosis](#)
- [Urinary Bladder Neoplasms](#)
- [Weight Loss](#)