

OriGene Technologies, Inc.

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Product datasheet for TA809260BM

G protein alpha S (GNAS) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI7H4]

Product data:

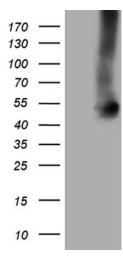
Product Type:	Primary Antibodies
Clone Name:	OTI7H4
Applications:	IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:500
Reactivity:	Human
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human GNAS (NP_000507) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	HRP
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	45.5 kDa
Gene Name:	GNAS complex locus
Database Link:	<u>NP_000507</u> <u>Entrez Gene 2778 Human</u> <u>P84996</u>



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	G protein alpha S (GNAS) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI7H4] – TA809260BM
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 reponses. 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 osseus heteroplasia, polyostotic fibrous dysplasia of bone, and some pituitary tumors. [provided by RefSeq, Aug 2012]
Synonyms:	AHO; C20orf45; GNAS1; GPSA; GSA; GSP; NESP; PHP1A; PHP1B; PHP1C; POH; SgVI
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways	: Calcium signaling pathway, Dilated cardiomyopathy, Gap junction, GnRH signaling pathway, Long-term depression, Melanogenesis, Taste transduction, Vascular smooth muscle contraction, Vibrio cholerae infection
Product imag	

Product images:

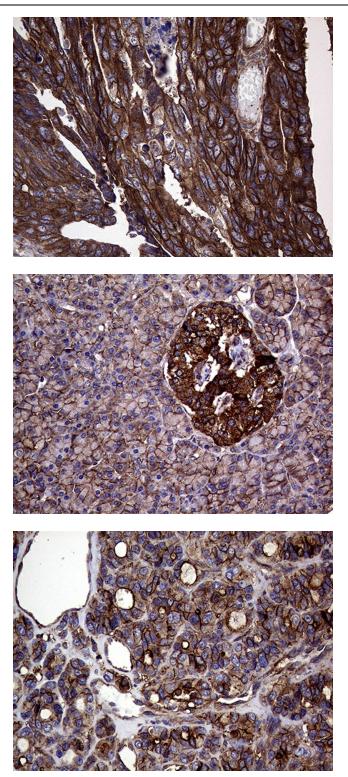


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GNAS ([RC214197], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GNAS (1:2000). Positive lysates [LY424674] (100ug) and [LC424674] (20ug) can be purchased separately from OriGene.

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G protein alpha S (GNAS) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OTI7H4] – TA809260BM



Immunohistochemical staining of paraffinembedded Adenocarcinoma of Human colon tissue using anti-GNAS mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA809260]) (1:150) (1:500)

Immunohistochemical staining of paraffinembedded Human pancreas tissue within the normal limits using anti-GNAS mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA809260]) (1:500)

Immunohistochemical staining of paraffinembedded Carcinoma of Human thyroid tissue using anti-GNAS mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA809260]) (1:500)

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