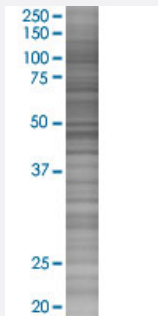


GNAS 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00002778-T02

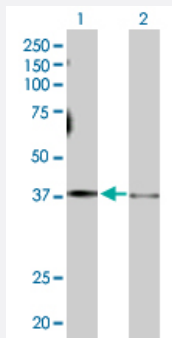
Size 100 uL

Applications



SDS-PAGE Gel

GNAS transfected lysate.



Western Blot

Lane 1: GNAS transfected lysate (45.70 KDa)

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line 293T

Plasmid pCMV-GNAS full-length

Host Human

Theoretical MW (kDa) 45.7

Quality Control Testing Transient overexpression cell lysate was tested with Anti-GNAS antibody ([H00002778-D01P](#)) by Western Blots.
SDS-PAGE Gel
GNAS transfected lysate.
Western Blot
Lane 1: GNAS transfected lysate (45.70 KDa)
Lane 2: Non-transfected lysate.

Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — GNAS

Entrez GeneID	2778
GeneBank Accession#	NM_000516
Protein Accession#	NP_000507.1
Gene Name	GNAS
Gene Alias	AHO, C20orf45, GNAS1, GPSA, GSA, GSP, MGC33735, NESP, PHP1A, PHP1B, POH, dJ309F20.1.1, 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]
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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
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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](#)
- [Calcinosis](#)

- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Cholangiocarcinoma](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Cushing Syndrome](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
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- [Goiter](#)
- [Hemorrhage](#)
- [Hypertension](#)
- [Hypopharyngeal Neoplasms](#)
- [Hypotension](#)
- [Insulin Resistance](#)
- [Kidney Neoplasms](#)
- [Laryngeal Neoplasms](#)
- [Leukemia](#)
- [Malaria](#)
- [Migraine Disorders](#)

- [Myxoma](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Recurrence](#)
- [Obesity](#)
- [Oropharyngeal Neoplasms](#)
- [Osteoma](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Pituitary Neoplasms](#)
- [Polycystic Ovary Syndrome](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Prosthesis Failure](#)
- [Pseudohypoparathyroidism](#)
- [Psychiatric Status Rating Scales](#)
- [Recurrence](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Skin Neoplasms](#)
- [Soft Tissue Neoplasms](#)
- [Stomach Neoplasms](#)
- [Syncope](#)
- [Syndrome](#)
- [Takotsubo Cardiomyopathy](#)
- [Thrombosis](#)

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