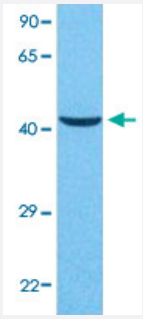
GNAS polyclonal antibody

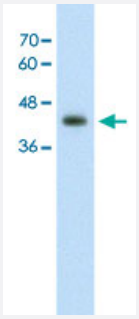
Catalog # PAB30105 Size 100 uL

Applications



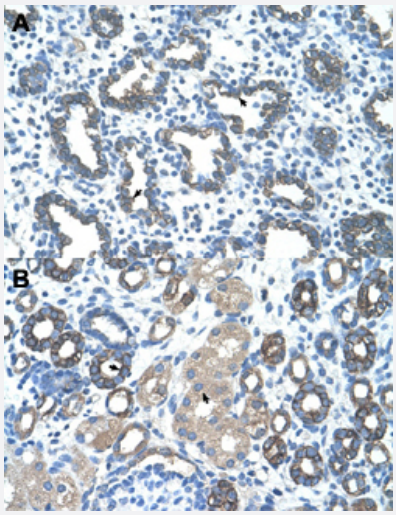
Western Blot (Cell lysate)

Western Blot analysis of MCF7 cell lysate with GNAS polyclonal antibody (Cat # PAB30105) at 1 ug/mL working concentration.



Western Blot (Cell lysate)

Western Blot analysis of Jurkat cell lysate with GNAS polyclonal antibody (Cat # PAB30105) at 2.5 ug/mL working concentration.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human lung (A) and human kidney (B) with GNAS polyclonal antibody (Cat # PAB30105) at 4-8 ug/mL working concentration.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of human GNAS.
Immunogen	A synthetic peptide corresponding to N-terminus of human GNAS.
Sequence	SGKSTIVKQMRILHVNGFNGDSEKATKVQDIKNNLKEAIETIVAAMSNLV
Host	Rabbit
Theoretical MW (kDa)	42
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (4-8 ug/mL) Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (2% sucrose, 0.09% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western Blot analysis of MCF7 cell lysate with GNAS polyclonal antibody (Cat # PAB30105) at 1 ug/mL working concentration.

- Western Blot (Cell lysate)

  Western Blot analysis of Jurkat cell lysate with GNAS polyclonal antibody (Cat # PAB30105) at 2.5 ug/mL working concentration.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human lung (A) and human kidney (B) with GNAS polyclonal antibody (Cat # PAB30105) at 4-8 ug/mL working concentration.

Gene Info — GNAS

Entrez GeneID	2778
GeneBank Accession#	NM_080426
Protein Accession#	NP_536351;Q5FWY2
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' exo ns. Some transcripts contains a differentially methylated region (DMR) at their 5' exons, and this D MR 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 pr oduced from this locus, and the antisense transcript, are paternally expressed noncoding RNAs, a nd may regulate imprinting in this region. In addition, one of the transcripts contains a second over lapping ORF, which encodes a structurally unrelated protein - Alex. Alternative splicing of downstr eam exons is also observed, which results in different forms of the stimulatory G-protein alpha sub unit, 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 variant s encoding different isoforms have been found for this gene. Mutations in this gene result in pseud ohypoparathyroidism type 1a, pseudohypoparathyroidism type 1b, Albright hereditary osteodystro phy, pseudopseudohypoparathyroidism, McCune-Albright syndrome, progressive osseus heterop lasia, polyostotic fibrous dysplasia of bone, and some pituitary tumors. [provided by RefSeq
Other Designations	OTTHUMP00000031740|OTTHUMP00000031756|OTTHUMP00000196026|OTTHUMP000001 96030|adenylate cyclase-stimulating G alpha protein|guanine nucleotide binding protein (G protei n), alpha stimulating activity polypeptide 1|guanine nucleotide regulatory protein|neuroe

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
- Esophageal Neoplasms
- Fibrosarcoma
- Fibrous Dysplasia
- Genetic Predisposition to Disease
- Glaucoma
- 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