

ARG65237 anti-GNAS antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes GNAS
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Cow
Tested Application	WB
Specificity	This antibody is expected to recognize all three reported isoforms NP_000507.1, NP_001070956.1 and NP_536350.2. However, in Mouse it is expected to recognize reported isoforms GNASL (NP_963910.1) and XLas (NP_034439.2) only.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	GNAS
Species	Human
Immunogen	C-QAARSNSDGEKATK
Conjugation	Un-conjugated
Alternate Names	Alternative gene product encoded by XL-exon; GSP; SCG6; AHO; NESP; GSA; GPSA; C20orf45; POH; SgVI; Protein ALEX; GNAS1

Application Instructions

Application table	Application	Dilution
	WB	0.1 - 3 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

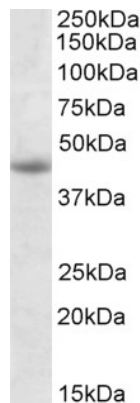
Background

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 contains 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, Mar 2009]

Research Area
Calculated Mw
PTM

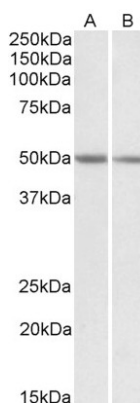
Cancer antibody; Metabolism antibody; Signaling Transduction antibody
111 kDa
Binds keratan sulfate chains.
May be proteolytically processed to give rise to a number of active peptides.

Images



ARG65237 anti-GNAS antibody WB image

Western Blot: Jurkat lysate (35 µg protein in RIPA buffer) stained with ARG65237 anti-GNAS antibody at 1 µg/ml dilution.



ARG65237 anti-GNAS antibody WB image

Western Blot: Mouse Brain (Lane 1) and Rat Brain (lane 2) lysates (35 µg protein in RIPA buffer) stained with ARG65237 anti-GNAS antibody at 0.1 µg/ml dilution.