

GNAS Polyclonal Antibody

Catalog No.	A5546	Category	Polyclonal Antibodies
Applications	WB	Observed MW	72kDa
Cross-reactivity	Human, Mouse	Calculated MW	28kDa/44kDa/45kDa/77kDa/109kDa/111kDa

Immunogen Information

Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-394 of human GNAS (NP_000507.1).
Gene ID	2778
Swiss prot	O95467/P63092/P84996/Q5JWF2
Synonyms	GNAS; AHO; C20orf45; GNAS1; GPSA; GSA; GSP; NE SP; POH; SCG6; SgVI; protein ALEX

Product information

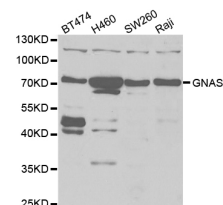
Source	Rabbit
Isotype	IgG
Purification method	Affinity purification
Storage	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

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 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.

Recommended Dilutions

WB 1:500 - 1:2000



Western blot - GNAS Polyclonal Antibody (A5546)