Datasheet for ABIN6141213

anti-GNAS antibody (AA 1-394)

4 Images

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Overview

Quantity:	100 µL
Target:	GNAS
Binding Specificity:	AA 1-394
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GNAS antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-394 of human GNAS (NP_000507.1).
Sequence:	MGCLGNSKTE DQRNEEKAQR EANKKIEKQL QKDKQVYRAT HRLLLLGAGE SGKSTIVKQM RILHVNGFNG EGGEEDPQAA RSNSDGEKAT KVQDIKNNLK EAIETIVAAM SNLVPPVELA NPENQFRVDY ILSVMNVPDF DFPPEFYEHA KALWEDEGVR ACYERSNEYQ LIDCAQYFLD KIDVIKQADY VPSDQDLLRC RVLTSGIFET KFQVDKVNFH MFDVGGQRDE RRKWIQCFND VTAIIFVVAS SSYNMVIRED NQTNRLQEAL NLFKSIWNNR WLRTISVILF LNKQDLLAEK VLAGKSKIED YFPEFARYTT PEDATPEPGE DPRVTRAKYF IRDEFLRIST ASGDGRHYCY PHFTCAVDTE NIRRVFNDCR DIIQRMHLRQ YELL
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat

Product Details

Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	GNAS
Alternative Name:	GNAS (GNAS Products)
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.,GNAS,AHO,C20orf45,GNAS1,GPSA,GSA,GSP,NESP,POH,SCG6,SgVI,Cancer,Signal Transduction,G protein signaling,G2/M DNA Damage Checkpoint,Phospholipase Signaling Pathway,Endocrine & Metabolism,Neuroscience,Neurodegenerative Diseases,Dopamine Signaling in Parkinson's Disease,GNAS
Molecular Weight:	28 kDa/44 kDa/45 kDa/77 kDa/109 kDa/111 kDa
Gene ID:	2778
UniProt:	O95467, P63092, P84996, Q5JWF2
Pathways:	Thyroid Hormone Synthesis, cAMP Metabolic Process, Myometrial Relaxation and Contraction, Embryonic Body Morphogenesis

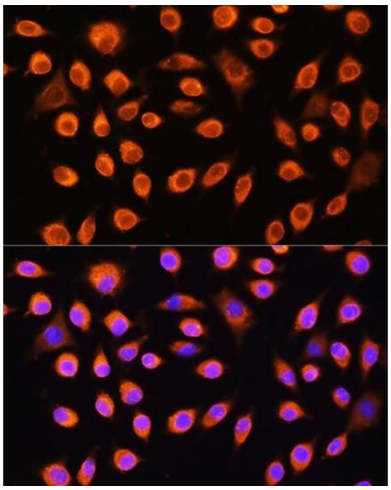
Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200,IP,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

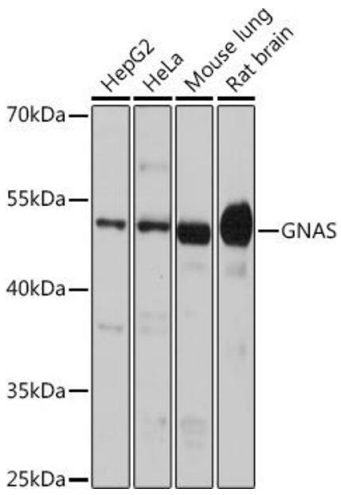
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



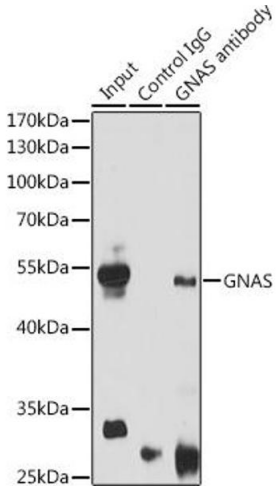
Immunofluorescence

Image 1. Immunofluorescence analysis of L929 cells using GNAS Rabbit pAb (ABIN6127959, ABIN6141213, ABIN6141214 and ABIN6221191) at dilution of 1:100. Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using GNAS antibody (ABIN6127959, ABIN6141213, ABIN6141214 and ABIN6221191) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 30s.



Immunoprecipitation

Image 3. Immunoprecipitation analysis of 200 µg extracts of Mouse brain cells using 3 µg GNAS antibody (ABIN6127959, ABIN6141213, ABIN6141214 and ABIN6221191). Western blot was performed from the immunoprecipitate using GNAS antibody (ABIN6127959, ABIN6141213, ABIN6141214 and ABIN6221191) at a dilition of 1:1000.

Please check the product details page for more images. Overall 4 images are available for ABIN6141213.