

Rabbit GNAS Polyclonal Antibody | anti-GNAS antibody

GNAS antibody - N-terminal region

CATALOG # AAA23503	HOST Rabbit	REACTIVITY Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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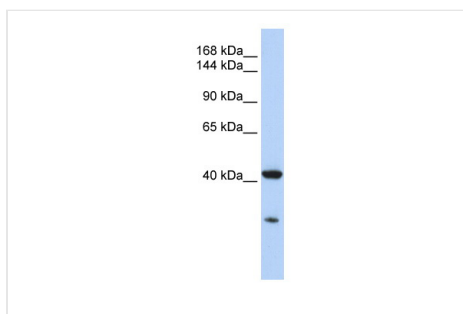
PRODUCT SYNONYMS

GNAS; Polyclonal Antibody; GNAS antibody - N-terminal region; anti-GNAS antibody

PRODUCT SPECIFICATIONS

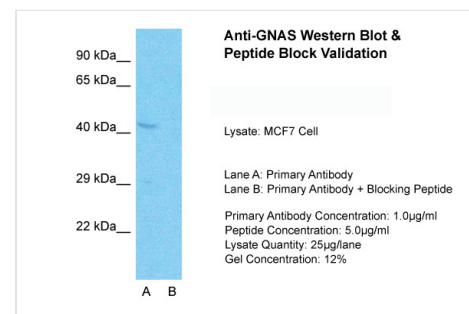
Host	Rabbit
Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat
Clonality	Polyclonal
Purity/Purification	Affinity Purified
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Sequence	Synthetic peptide with the following region: VY RATHRLLLG AGESGKSTIV KQMRILHVNG FNGEGGEEDP QAARSNSD
Sequence Length	394
Applicable Applications for anti-GNAS antibody	IHC (Immunohistochemistry), WB (Western Blot)
Homology	Cow: 100%; Dog: 100%; Guinea Pig: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Rabbit: 93%; Rat: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human GNAS
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



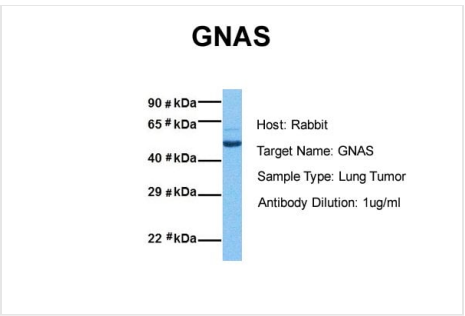
WB (Western Blot)

WB Suggested Anti-GNAS Antibody Titration: 1 ug/ml
Positive Control: MCF-7 whole cell lysates
GNAS is strongly supported by BioGPS gene expression data to be expressed in Human MCF7 cells



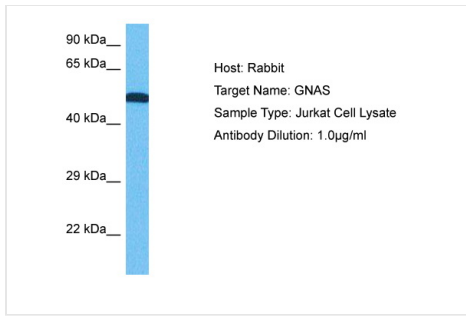
WB (Western Blot)

Host: Rabbit
Target Name: GNAS
Sample Type: MCF7 Whole Cell
Lane A: Primary Antibody
Lane B: Primary Antibody + Blocking Peptide
Primary Antibody Concentration: 1.0 ug/ml
Peptide Concentration: 5.0 ug/ml
Lysate Quantity: 25 ug/lane
Gel Concentration: 12%



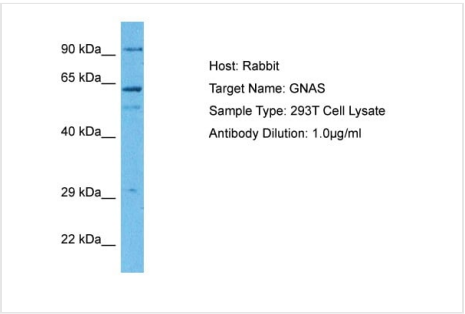
WB (Western Blot)

Host: RabbitTarget Name: GNASSample Tissue: Human Lung TumorAntibody Dilution: 1.0ug/ml



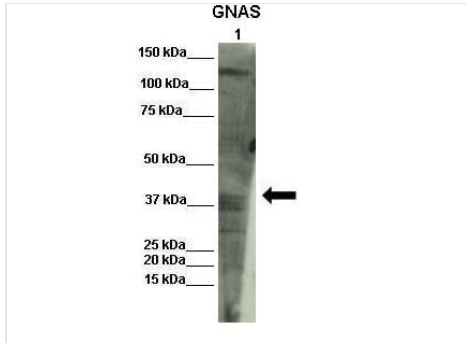
WB (Western Blot)

Host: RabbitTarget Name: GNASSample Tissue: Human Jurkat Whole CellAntibody Dilution: 1ug/ml



WB (Western Blot)

Host: RabbitTarget Name: GNASSample Tissue: Human 293T Whole CellAntibody Dilution: 1ug/ml



WB (Western Blot)

Sample Type: INS1Lanes :Lane 1: INS1 lysatePrimary Antibody Dilution :1:1000Secondary Antibody :Donkey anti-rabbit-HRPSecondary Antibody Dilution :1:1000Gene Name :GNASSubmitted by :Olivier Costa, Diabetes research center VUB

ADDITIONAL INFORMATION

Related Product Information for anti-GNAS antibody	This is a rabbit polyclonal antibody against GNAS. It was validated on Western Blot using a cell lysate as a positive control. Target Description: Mutations in GNAS 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. 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 exists, and this antisense transcript and one of the transcripts are paternally expressed, produce 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 have been found for this gene, but the full-length nature and/or biological validity of some variants have not been determined. 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.
Product Categories/Family for anti-GNAS antibody	Polyclonal; Signal Proteins; Lymphocyte Signaling; Membrane Protein; Drugs and Drug Metabolism; Developmental Biology; Immunohistochemistry; Receptors; GPCR; Methylation

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504047
NCBI GeneID	2778

NCBI Accession #	NP_000507
NCBI GenBank Nucleotide #	NM_000516
UniProt Accession #	P63092 ; O95467 ; P84996 ; Q5JWF2
Molecular Weight	46kDa
NCBI Official Full Name	protein GNAS isoform GNASL
NCBI Official Synonym Full Names	GNAS complex locus
NCBI Official Symbol	GNAS
NCBI Official Synonym Symbols	AHO; GSA; GSP; POH; GPSA; NESP; SCG6; SgVI; GNAS1; PITA3; C20orf45
NCBI Protein Information	protein ALEX; protein GNAS; protein SCG6 (secretogranin VI)
UniProt Protein Name	Guanine nucleotide-binding protein G(s) subunit alpha isoforms short
UniProt Gene Name	GNAS
UniProt Synonym Gene Names	GNAS1; GSP
UniProt Entry Name	GNAS2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gnas-antibody-immunohistochemistry-western-blot-elisa/23503>