antibodies .- online.com







anti-GNAS antibody (N-Term)



Publications



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Quantity:	100 μL
Target:	GNAS
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Horse, Rabbit, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GNAS antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)
Product Details	
Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human GNAS
Immunogen: Sequence:	The immunogen is a synthetic peptide directed towards the N terminal region of human GNAS VYRATHRLLL LGAGESGKST IVKQMRILHV NGFNGEGGEE DPQAARSNSD
Sequence:	VYRATHRLLL LGAGESGKST IVKQMRILHV NGFNGEGGEE DPQAARSNSD Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit:
Sequence: Predicted Reactivity:	VYRATHRLLL LGAGESGKST IVKQMRILHV NGFNGEGGEE DPQAARSNSD Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 93%, Rat: 100% This is a rabbit polyclonal antibody against GNAS. It was validated on Western Blot using a cell
Sequence: Predicted Reactivity: Characteristics:	VYRATHRLLL LGAGESGKST IVKQMRILHV NGFNGEGGEE DPQAARSNSD Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 93%, Rat: 100% This is a rabbit polyclonal antibody against GNAS. It was validated on Western Blot using a cell lysate as a positive control.

Alternative Name:	GNAS (GNAS Products)
Background:	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.
	Alias Symbols: AHO, C20orf45, GNAS1, GPSA, GSA, GSP, MGC33735, PHP1A, PHP1B, POH,
	dJ309F20.1.1, dJ806M20.3.3, NESP, PHP1C
	Protein Interaction Partner: PANX1, AXIN1, UBC, FUS, OPTN, PTGIR, HLA-A, ADRB2, NUCB2,
	NUCB1, LAMTOR1, SLC25A12, GNAQ, GNA11, UBD, TBXA2R, GNB1, AVPR2, SUMO1, PCK1,
	Ric8b, GNG2, CALM1, Haus1, Trim69, Cbx1, RIC8A, TTC1, SNX13, ADCY5, CRHR1, PTGDR,
	TSHR, CAV3, HTR6, RGS2, ADCY6, VIPR1,
	Protein Size: 394
Molecular Weight:	46 kDa
Gene ID:	2778
NCBI Accession:	NM_000516, NP_000507
UniProt:	P63092
Pathways:	Thyroid Hormone Synthesis, cAMP Metabolic Process, Myometrial Relaxation and Contraction,
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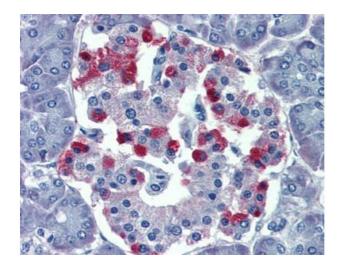
Application Details

Application Details		
Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.	
Comment:	Antigen size: 394 AA	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	Lot specific	
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-20 °C	
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.	

Publications

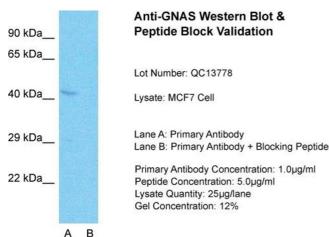
Product cited in:

Mullins, Crawford, Khuder, Hernandez, Yoon, Willey: "CEBPG transcription factor correlates with antioxidant and DNA repair genes in normal bronchial epithelial cells but not in individuals with bronchogenic carcinoma." in: **BMC cancer**, Vol. 5, pp. 141, (2005) (PubMed).



Immunohistochemistry

Image 1.



Western Blotting

Image 2. Host: Rabbit

Target Name: GNAS

Sample Tissue: MCF7 Whole Cell

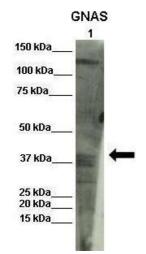
Lane A: Primary Antibody Lane B: Primary Antibody +

Blocking Peptide

Primary Antibody Concentration: 1 µg/mL Peptide

Concentration: 5 µg/mL Lysate Quantity: 41 µg/laneGel

Concentration:.12 %



Western Blotting

Image 3. Lanes: Lane 1: INS1 lysate Primary Antibody
Dilution: 1:1000 Secondary Antibody: Donkey anti-rabbitHRP Secondary Antibody Dilution: 1:1000 Gene Name:
GNAS Submitted by: Olivier Costa, Diabetes research center
VUB

Please check the product details page for more images. Overall 9 images are available for ABIN2775542.