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anti-GNAS antibody (N-Term)





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Quantity:	100 μL
Target:	GNAS
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Pig, Rabbit
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	
Sequence:	SGKSTIVKQM RILHVNGFNG DSEKATKVQD IKNNLKEAIE TIVAAMSNLV	
Predicted Reactivity:	Cow: 93%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 93%, Rat: 100%	
Characteristics:	This is a rabbit polyclonal antibody against GNAS. It was validated on Western Blot and immunohistochemistry.	
Purification:	Protein A purified	

Target Details

Target:	GNAS
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 gene has a highly complex imprinted expression pattern. It encodes maternally, paternally, and biallelically expressed proteins which are derived from alternatively spliced transcripts with alternate 5' exons. Each of the upstream exons is within a differentially methylated region, commonly found in imprinted genes. However, the close proximity (14 kb) of two oppositely expressed promoter regions is unusual. In addition, one of the alternate 5' exons introduces a frameshift relative to the other transcripts, resulting in one isoform which is structurally unrelated to the others. An antisense transcript exists, and may regulate imprinting in this region. Mutations in this gene result in pseudohypoparathyroidism type 1a (PHP1a), which has an atypical autosomal dominant inheritance pattern requiring maternal transmission for full penetrance. There are RefSeqs representing four transcript variants of this gene. Other transcript variants including four additional exons have been described, however, their full length sequences have not been determined.

Alias Symbols: RP4-543J19.4, 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: 380

Molecular Weight:	42 kDa
Gene ID:	2778
NCBI Accession:	NM_080426, NP_536351
UniProt:	Q5FWY2
Pathways:	Thyroid Hormone Synthesis, cAMP Metabolic Process, Myometrial Relaxation and Contraction, Embryonic Body Morphogenesis

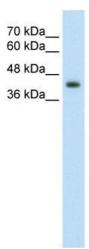
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 380 AA

Application Details

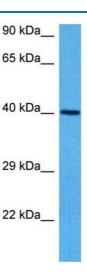
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS 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.

Images



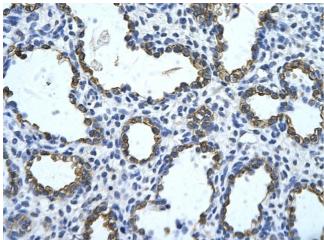
Western Blotting

Image 1. WB Suggested Anti-GNAS Antibody Titration: 2.5ug/ml Positive Control: Jurkat cell lysate There is BioGPS gene expression data showing that GNAS is expressed in Jurkat



Western Blotting

Image 2. Host: Mouse Target Name: GNAS Sample Tissue: Mouse Heart Antibody Dilution: 1ug/ml



Immunohistochemistry

Image 3. Rabbit Anti-GNAS Antibody Paraffin Embedded Tissue: Human alveolar cell Cellular Data: Epithelial cells of renal tubule Antibody Concentration: 4.0-8.0 ug/ml Magnification: 400X

Please check the product details page for more images. Overall 11 images are available for ABIN2775543.