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Datasheet for ABIN2785808
anti-GNAI1 antibody (Middle Region)

2 Images

Overview

Quantity:	100 µL
Target:	GNAI1
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Pig, Guinea Pig, Dog, Rabbit, Zebrafish (Danio rerio), Horse, Sheep, Saccharomyces cerevisiae, Goat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GNAI1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human GNAI1
Sequence:	YQLNDSAAYY LNDLDRIAQP NYIPTQQDVL RTRVKTTGIV ETHFTFKDLH
Predicted Reactivity:	Cow: 100%, Dog: 100%, Goat: 79%, Guinea Pig: 93%, Horse: 93%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 100%, Rat: 100%, Sheep: 79%, Yeast: 100%, Zebrafish: 85%
Characteristics:	This is a rabbit polyclonal antibody against GNAI1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	GNAI1
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Target Details

Alternative Name: [GNAI1 \(GNAI1 Products\)](#)

Background: Guanine nucleotide-binding proteins (G proteins) form a large family of signal-transducing molecules. They are found as heterotrimers made up of alpha, beta, and gamma subunits. Members of the G protein family have been characterized most extensively on the basis of the alpha subunit, which binds guanine nucleotide, is capable of hydrolyzing GTP, and interacts with specific receptor and effector molecules. The G protein family includes Gs and Gi, the stimulatory and inhibitory GTP-binding regulators of adenylate cyclase, Go, a protein abundant in brain (GNAO1), and transducin-1 (GNAT1) and transducin-2 (GNAT2), proteins involved in phototransduction in retinal rods and cones, respectively. Guanine nucleotide-binding proteins (G proteins) form a large family of signal-transducing molecules. They are found as heterotrimers made up of alpha, beta, and gamma subunits. Members of the G protein family have been characterized most extensively on the basis of the alpha subunit, which binds guanine nucleotide, is capable of hydrolyzing GTP, and interacts with specific receptor and effector molecules. The G protein family includes Gs (MIM 139320) and Gi, the stimulatory and inhibitory GTP-binding regulators of adenylate cyclase, Go, a protein abundant in brain (GNAO1, MIM 139311), and transducin-1 (GNAT1, MIM 139330) and transducin-2 (GNAT2, MIM 139340), proteins involved in phototransduction in retinal rods and cones, respectively (Sullivan et al., 1986 [PubMed 3092218], Bray et al., 1987 [PubMed 3110783]). Suki et al. (1987) [PubMed 2440724] concluded that the human genome contains at least 3 nonallelic genes for alpha-i-type subunits of G protein, see, e.g. GNAI2 (MIM 139360), GNAI3 (MIM 139370), and GNAIH (MIM 139180).[supplied by OMIM]. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

Alias Symbols: Gi

Protein Interaction Partner: GPSM3, RGS17, ESR1, ATP4A, RAD52, SVIL, NUCB1, NCF2, MTNR1B, MTNR1A, NCF1, THAP7, RIC8A, RGS14, IQCB1, UBC, RANGAP1, GPR50, GNB1, GNAI3, GNAI2, GNB4, GNB2, PTH1R, PCK1, Haus1, Cep76, Haus4, Recq14, Trim69, Cbx1, PGR, STRN, KLHL3, ADCY5, RASD1, CRHR1, GPSM

Protein Size: 354

Molecular Weight: 40 kDa

Gene ID: 2770

NCBI Accession: [NM_002069, NP_002060](#)

Target Details

UniProt: [P63096](#)

Pathways: [G-protein mediated Events](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 354 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.

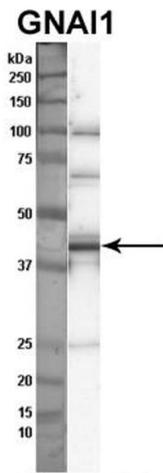
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

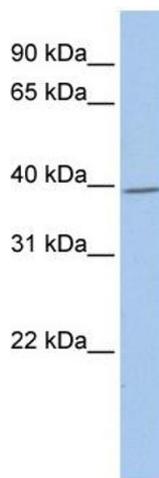
Handling Advice: Avoid repeated freeze-thaw cycles.

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.



See Immunoblot 2 Data and Customer Feedback tab for more information.



Western Blotting

Image 1. Sample Type: Nthy-ori cell lysate (50ug)

Primary Dilution: 1:1000

Secondary Antibody: anti-rabbit HRP

Secondary Dilution: 1:2000

Image Submitted By: Anonymous

Western Blotting

Image 2. WB Suggested Anti-GNAI1 Antibody Titration:

0.2-1 ug/ml

ELISA Titer: 1:12500

Positive Control: Human brain