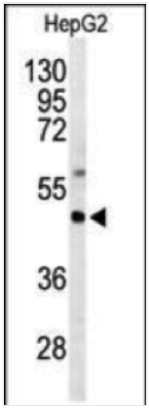
# GNAZ Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | GNAZ, Polyclonal Antibody |
| **Full Product Name** | GNAZ, NT (GNAZ, Guanine nucleotide-binding protein G(z) subunit alpha, G(x) alpha chain, Gz-alpha) (FITC) |
| **Product Gene Name** | anti-GNAZ antibody |
| **Product Synonym Names** | GNAZ; Guanine nucleotide-binding protein G(z) subunit alpha; G(x) alpha chain; Gz-alpha |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC). |
| **Purity/Purification** | Purified by Protein A and Peptide Affinity Chromatography. |
| **Specificity** | Recognizes human GNAZ. |
| **Preparation and Storage** | Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. |
| **Molecular Weight** | 355 |
| **OMIM** | 139160 |
| **3D Structure** | ModBase 3D Structure for P19086 |
| **Immunogen** | KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 77-106 in the N-terminal region of human GNAZ. |
| **Conjugate** | FITC |
| **Note** | Preservative Free |
| **Special Handling** | Light sensitive |
| **Product Categories/Family for anti-GNAZ antibody** | Antibodies; Binding Proteins |
| **Applications Tested/Suitable for anti-GNAZ antibody** | Western Blot (WB), FLISA |
| **Application Notes for anti-GNAZ antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-GNAZ antibody** | GNAZ is a member of a G protein subfamily that mediates signal transduction in pertussis toxin-insensitive systms. This protein may play a role in maintaining the ionic balance of perilymphatic and endolymphatic cochlear fluids. |
| **Product References and Citations for anti-GNAZ antibody** | 1. Bazhin, A.V., et al. Cell. Mol. Life Sci. 67(5):817-828(2010). 2. Luttrell, L.M. Mol. Biotechnol. 39(3):239-264(2008). 3. Gudbjartsson, D.F., et al. Nat. Genet. 40(5):609-615(2008). |
| **Other Notes** | Small volumes of anti-GNAZ antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

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| **Searchable Terms for GNAZ purchase** | MBS6302988 is an antibody targeting GNAZ. Also known as GNAZ, NT (GNAZ, Guanine nucleotide-binding protein G(z) subunit alpha, G(x) alpha chain, Gz-alpha) (FITC). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-GNAZ antibody**
Western Blot analysis of HepG2 cell line lysates (35ug/lane) using MBS6004002. GNAZ (arrow) was detected using MBS6004002.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GNAZ. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 121005 |
| **NCBI GeneID** | 2781 |
| **NCBI Accession #** | P19086.3 |
| **UniProt Primary Accession #** | P19086 |
| **UniProt Secondary Accession #** | Q4QRJ6; B2R6C1 |
| **UniProt Related Accession #** | P19086 |
| **NCBI Official Full Name** | Guanine nucleotide-binding protein G(z) subunit alpha |
| **NCBI Official Synonym Full Names** | guanine nucleotide binding protein (G protein), alpha z polypeptide |
| **NCBI Official Symbol** | GNAZ |
| **UniProt Protein Name** | Guanine nucleotide-binding protein G(z) subunit alpha |
| **UniProt Synonym Protein Names** | G(x) alpha chain; Gz-alpha |
| **UniProt Gene Name** | GNAZ |
| **UniProt Entry Name** | GNAZ_HUMAN |
| **NCBI Protein Information** | guanine nucleotide-binding protein G(z) subunit alpha; guanine nucleotide-binding protein G(z) subunit alpha; gz-alpha; g(x) alpha chain; transducin alpha |
| **NCBI Summary for GNAZ** | The protein encoded by this gene is a member of a G protein subfamily that mediates signal transduction in pertussis toxin-insensitive systms. This encoded protein may play a role in maintaining the ionic balance of perilymphatic and endolymphatic cochlear fluids. [provided by RefSeq, Jul 2008] |

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| **UniProt Comments for GNAZ** | G-alpha(z): Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. G proteins are composed of 3 units; alpha, beta and gamma. The alpha chain contains the guanine nucleotide binding site. Belongs to the G-alpha family. G(i/o/t/z) subfamily.<br><br>Protein type: Nuclear envelope; Endoplasmic reticulum; G protein, heterotrimeric; G protein, heterotrimeric alpha G((i/o/t/z))<br><br>Chromosomal Location of Human Ortholog: 22q11.22<br><br>Cellular Component: endoplasmic reticulum; plasma membrane; heterotrimeric G-protein complex; nuclear envelope; cytosol<br><br>Molecular Function: GTPase activity; signal transducer activity; GTP binding; metal ion binding; G-protein beta/gamma-subunit binding; receptor signaling protein activity; metabotropic serotonin receptor binding<br><br>Biological Process: G-protein signaling, coupled to cAMP nucleotide second messenger; G-protein coupled receptor protein signaling pathway; metabolic process; G-protein signaling, adenylate cyclase inhibiting pathway |
| **Research Articles on GNAZ** | **1.** GNAZ mutations are associated with melanoma. |
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