# GNG7 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | GNG7, Polyclonal Antibody |
| **Full Product Name** | GNG7 (Guanine Nucleotide-binding Protein G(I)/G(S)/G(O) Subunit gamma-7, GNGT7, FLJ00058) (MaxLight 750) |
| **Product Gene Name** | anti-GNG7 antibody |
| **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 MaxLight750. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human GNG7. |
| **Preparation and Storage** | Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 7,522 Da |
| **Chromosome Location** | Chromosome: 19; NC_000019.9 (2511218..2702746, complement). Location: 19p13.3 |
| **OMIM** | 604430 |
| **3D Structure** | ModBase 3D Structure for O60262 |
| **Immunogen** | Full length human GNG7, aa1-68 (NP_443079.1). |
| **Immunogen Sequence** | MSATNNIAQARKLVEQLRIEAGIERIKVSKAASDLMSYCEQHARNDPLLVGVPASENPFKDKKPCIIL |
| **Conjugate** | MaxLight750 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-GNG7 antibody** | Antibodies; G Proteins |
| **Applications Tested/Suitable for anti-GNG7 antibody** | Western Blot (WB) |
| **Application Notes for anti-GNG7 antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-GNG7 antibody** | Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction. Plays a role in the regulation of adenylyl cyclase signaling in certain regions of the brain. Plays a role in the formation or stabilzation of a G protein heterotrimer (G(olf) subunit alpha-beta-gamma-7) that is required for adenylyl cyclase activity in the striatum. |
| **Other Notes** | Small volumes of anti-GNG7 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 GNG7 purchase** | MBS6380064 is an antibody targeting GNG7. Also known as GNG7 (Guanine Nucleotide-binding Protein G(I)/G(S)/G(O) Subunit gamma-7, GNGT7, FLJ00058) (MaxLight 750). Reactive in Human. Host: Rabbit. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GNG7. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 32698769 |
| **NCBI GeneID** | 2788 |
| **NCBI Accession #** | NP_443079.1 |
| **UniProt Primary Accession #** | O60262 |
| **UniProt Secondary Accession #** | B2R496 |
| **UniProt Related Accession #** | O60262 |
| **GenBank Nucleotide #** | NM_052847 |
| **NCBI Official Full Name** | guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-7 |
| **NCBI Official Synonym Full Names** | guanine nucleotide binding protein (G protein), gamma 7 |
| **NCBI Official Symbol** | GNG7 |
| **UniProt Protein Name** | Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-7 |
| **UniProt Gene Name** | GNG7 |
| **UniProt Synonym Gene Names** | GNGT7 |
| **UniProt Entry Name** | GBG7_HUMAN |
| **NCBI Protein Information** | guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-7; guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-7 |
| **UniProt Comments for GNG7** | G-gamma 7: Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein- effector interaction. Plays a role in the regulation of adenylyl cyclase signaling in certain regions of the brain. Plays a role in the formation or stabilzation of a G protein heterotrimer (G(olf) subunit alpha-beta-gamma-7) that is required for adenylyl cyclase activity in the striatum. Belongs to the G protein gamma family.<br><br>Protein type: G protein, heterotrimeric gamma; G protein; G protein, heterotrimeric<br><br>Chromosomal Location of Human Ortholog: 19p13.3<br><br>Cellular Component: plasma membrane; heterotrimeric G-protein complex<br><br>Molecular Function: signal transducer activity<br><br>Biological Process: regulation of adenylate cyclase activity; G-protein coupled receptor protein signaling pathway; synaptic transmission; behavioral fear response; receptor guanylyl cyclase signaling pathway; energy reserve metabolic process; locomotory behavior; regulation of G-protein coupled receptor protein signaling pathway |
| **Research Articles on GNG7** | **1.** GNG7 is a highly specific promoter methylated gene associated with head and neck cancer. |
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