GNG7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

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 650)
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 MaxLight650.
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: MaxLight650 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	MaxLight650
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.

Searchable Terms for GNG7 purchase	MBS6380063 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 650). 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.

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. Protein type: G protein, heterotrimeric gamma; G protein; G protein, heterotrimeric Chromosomal Location of Human Ortholog: 19p13.3 Cellular Component: plasma membrane; heterotrimeric G-protein complex Molecular Function: signal transducer activity 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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