GNB5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GNB5, Polyclonal Antibody
Full Product Name	GNB5, NT (Gbeta5, Transducin beta chain 5, Guanine nucleotide-binding protein subunit beta-5, GNB5) (MaxLight 650)
Product Gene Name	anti-GNB5 antibody
Product Synonym Names	Gbeta5; Transducin beta chain 5; Guanine nucleotide-binding protein subunit beta-5; GNB5
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
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.
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	43,566 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (52413123..52483565, complement). Location: 15q21.2
OMIM	604447
3D Structure	ModBase 3D Structure for O14775
Immunogen	GNB5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 10~39 amino acids from the N-terminal region of human GNB5.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-GNB5 antibody	Antibodies; G Proteins
Applications Tested/Suitable for anti-GNB5 antibody	Western Blot (WB), FLISA
Application Notes for anti-GNB5 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-GNB5 antibody	Heterotrimeric guanine nucleotide-binding proteins (G proteins), which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit. These subunits are encoded by families of related genes. This gene encodes a beta subunit. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors.
Product References and Citations for anti-GNB5 antibody	Hosgood, H.D. III, et al. Occup Environ Med 66(12):848-853(2009). Howlett, A.C., et al. J. Biol. Chem. 284(24):16386-16399(2009). Rao, A., et al. J. Neurosci. 27(51):14199-14204(2007). Drenan, R.M., et al. J. Biol. Chem. 281(38):28222-28231(2006). Stelzl, U., et al. Cell 122(6):957-968(2005)

Other Notes	Small volumes of anti-GNB5 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 GNB5 purchase	MBS6303026 is an antibody targeting GNB5. Also known as GNB5, NT (Gbeta5, Transducin beta chain 5, Guanine nucleotide-binding protein subunit beta-5, GNB5) (MaxLight 650). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GNB5. It may not necessarily be applicable to this product.

NCBI GI #	5729852
NCBI GeneID	10681
NCBI Accession #	NP_006569.1
UniProt Primary Accession #	O14775
UniProt Secondary Accession #	Q9HAU9; Q9UFT3
UniProt Related Accession #	O14775
GenBank Nucleotide #	NM_006578.3
NCBI Official Full Name	guanine nucleotide-binding protein subunit beta-5 isoform a
NCBI Official Synonym Full Names	guanine nucleotide binding protein (G protein), beta 5
NCBI Official Symbol	GNB5
NCBI Official Synonym Symbols	GB5
UniProt Protein Name	Guanine nucleotide-binding protein subunit beta-5
UniProt Synonym Protein Names	Gbeta5; Transducin beta chain 5
Protein Family	Guanine nucleotide-binding protein
UniProt Gene Name	GNB5
UniProt Entry Name	GBB5_HUMAN
NCBI Protein Information	guanine nucleotide-binding protein subunit beta-5; gbeta5; transducin beta chain 5; G protein, beta-5 subunit; G protein, beta subunit 5L; guanine nucleotide-binding protein, beta subunit 5L
NCBI Summary for GNB5	Heterotrimeric guanine nucleotide-binding proteins (G proteins), which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit. These subunits are encoded by families of related genes. This gene encodes a beta subunit. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. Alternatively spliced transcript variants encoding different isoforms exist. [provided by RefSeq, Jul 2008]
UniProt Comments for GNB5	G-beta 5: 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. Belongs to the WD repeat G protein beta family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: G protein, heterotrimeric beta Chromosomal Location of Human Ortholog: 15q21.2 Cellular Component: plasma membrane; nucleus Molecular Function: GTPase activity; G-protein gamma-subunit binding; protein binding; signal transducer activity; chaperone binding Biological Process: rhodopsin mediated signaling; phototransduction, visible light; regulation of rhodopsin mediated signaling; metabolic process; signal transduction

Research Articles on GNB5	**1.** Type 5 G protein beta subunit (Gbeta5) controls the interaction of regulator of G protein signaling 9 (RGS9) with membrane anchors
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