GABRG3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GABRG3, Polyclonal Antibody
Full Product Name	GABRG3, NT (GABRG3, Gamma-aminobutyric acid receptor subunit gamma-3, GABA(A) receptor subunit gamma-3) (MaxLight 550)
Product Gene Name	anti-GABRG3 antibody
Product Synonym Names	GABRG3; Gamma-aminobutyric acid receptor subunit gamma-3; GABA(A) receptor subunit gamma-3
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 MaxLight550.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	54,289 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (27216429..27778373). Location: 15q12
OMIM	600233
3D Structure	ModBase 3D Structure for Q99928
Immunogen	GABRG3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 8~37 amino acids from the N-terminal region of human GABRG3.
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-GABRG3 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-GABRG3 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-GABRG3 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-GABRG3 antibody	GABRG3 is a family of proteins involved in the GABAergic neurotransmission of the mammalian central nervous system. GABRG3 is a member of the GABA-A receptor gene family of heteromeric pentameric ligand-gated ion channels through which GABA, the major inhibitory neurotransmitter in the mammalian brain, acts. GABA-A receptors are the site of action of a number of important pharmacologic agents including barbiturates, benzodiazepines, and ethanol (summary by Whiting et al., 1999 [PubMed 10414349]). For additional general information about the GABA-A receptor gene family, see GABRA1 (MIM 137160).

Product References and Citations for anti-GABRG3 antibody	Guilmatre, A., et al. Arch. Gen. Psychiatry 66(9):947-956(2009). Chakrabarti, B., et al. Autism Res 2(3):157-177(2009). Tabakoff, B., et al. BMC Biol. 7, 70 (2009).
Other Notes	Small volumes of anti-GABRG3 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 GABRG3 purchase	MBS6300913 is an antibody targeting GABRG3. Also known as GABRG3, NT (GABRG3, Gamma-aminobutyric acid receptor subunit gamma-3, GABA(A) receptor subunit gamma-3) (MaxLight 550). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GABRG3. It may not necessarily be applicable to this product.

NCBI GI #	110347416
NCBI GeneID	2567
NCBI Accession #	NP_150092.2
UniProt Primary Accession #	Q99928
UniProt Secondary Accession #	Q9HD46; Q9NYT2; G3V594
UniProt Related Accession #	Q99928
GenBank Nucleotide #	NM_033223.4
NCBI Official Full Name	gamma-aminobutyric acid receptor subunit gamma-3 isoform 1
NCBI Official Synonym Full Names	gamma-aminobutyric acid (GABA) A receptor, gamma 3
NCBI Official Symbol	GABRG3
UniProt Protein Name	Gamma-aminobutyric acid receptor subunit gamma-3
UniProt Synonym Protein Names	GABA(A) receptor subunit gamma-3
Protein Family	Gamma-aminobutyric acid receptor
UniProt Gene Name	GABRG3
UniProt Entry Name	GBRG3_HUMAN
NCBI Protein Information	gamma-aminobutyric acid receptor subunit gamma-3; GABA(G) receptor, gamma 3; GABA(A) receptor subunit gamma-3
NCBI Summary for GABRG3	This gene encodes a gamma-aminobutyric acid (GABA) receptor. GABA is the major inhibitory neurotransmitter in the mammalian brain where it acts at GABA-A receptors, which are ligand-gated chloride channels. Chloride conductance of these channels can be modulated by agents such as benzodiazepines that bind to the GABA-A receptor. GABA-A receptors are pentameric, consisting of proteins from several subunit classes: alpha, beta, gamma, delta and rho. The protein encoded by this gene is a gamma subunit, which contains the benzodiazepine binding site. Two transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Aug 2012]

UniProt Comments for GABRG3	GABRG3: GABA, the major inhibitory neurotransmitter in the vertebrate brain, mediates neuronal inhibition by binding to the GABA/benzodiazepine receptor and opening an integral chloride channel. Belongs to the ligand-gated ion channel (TC 1.A.9) family. Gamma-aminobutyric acid receptor (TC 1.A.9.5) subfamily. GABRG3 sub-subfamily. Protein type: Transporter, ion channel; Membrane protein, integral; Channel, ligand-gated; Transporter; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 15q12 Cellular Component: postsynaptic membrane; plasma membrane; cell junction Molecular Function: chloride channel activity; GABA-A receptor activity; extracellular ligand-gated ion channel activity Biological Process: response to drug; synaptic transmission; transmembrane transport; gamma-aminobutyric acid signaling pathway
Research Articles on GABRG3	**1.** suggestive evidence was found for association between rs8036270 in the GABRG3 gene and exercise participation
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