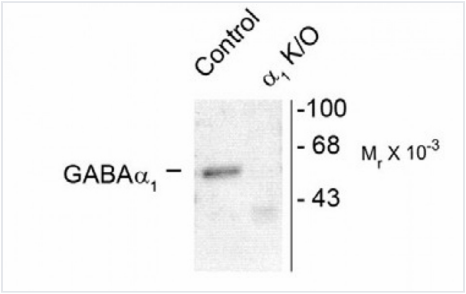
GABRA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	GABRA1, Polyclonal Antibody
Full Product Name	GABRA1 Antibody
Product Gene Name	anti-GABRA1 antibody
Product Synonym Names	Rabbit Polyclonal GABRA1 Antibody; Polyclonal GABRA1 antibody; Anti-GABRA1 antibody; GABRA 1 antibody; GABRA-1 antibody; GABRA1; Gamma-Aminobutyric Acid antibody; Gaba A Receptor Alpha 1 antibody; ECA4 antibody; EJM antibody
Clonality	Polyclonal
Host	Rabbit
Form/Format	Supplied in liquid form in 10 mM HEPES buffer (pH 7.5), 150 mM NaCl, 100 ug per ml BSA and 50% Glycerol
Purity/Purification	Affinity Chromatography
OMIM	gene 611136
3D Structure	ModBase 3D Structure for P14867
Product Categories/Family for anti-GABRA1 antibody	Neuroscience
Applications Tested/Suitable for anti-GABRA1 antibody	Western Blot (WB)
Application Notes for anti-GABRA1 antibody	WB: 1:1000
Related Product Information for anti-GABRA1 antibody	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. At least 16 distinct subunits of GABA-A receptors have been identified.
Other Notes	Small volumes of anti-GABRA1 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 GABRA1 purchase	MBS5313104 is an antibody targeting GABRA1. Also known as GABRA1 Antibody. Host: Rabbit.



Western Blot (WB) of anti-GABRA1 antibody
Western blot of mouse forebrain lysates from wild type (Control) and alphaK/O) animals showing specific immunolabeling of ~51k alpha 11-knockout (alpha-subunit of the GABA Rexeptor)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GABRA1. It may not necessarily be applicable to this product.

NCBI GI #	189083734
NCBI GeneID	2554
UniProt Primary Accession #	P14867
UniProt Related Accession #	P14867
GenBank Nucleotide #	NP_001121120.1
NCBI Official Full Name	gamma-aminobutyric acid receptor subunit alpha-1
NCBI Official Synonym Full Names	gamma-aminobutyric acid type A receptor alpha1 subunit
NCBI Official Symbol	GABRA1
NCBI Official Synonym Symbols	EJM; ECA4; EJM5; EIEE19
UniProt Protein Name	Gamma-aminobutyric acid receptor subunit alpha-1
UniProt Synonym Protein Names	GABA(A) receptor subunit alpha-1
Protein Family	Gamma-aminobutyric acid receptor
UniProt Gene Name	GABRA1
UniProt Entry Name	GBRA1_HUMAN
NCBI Protein Information	gamma-aminobutyric acid receptor subunit alpha-1
NCBI Summary for GABRA1	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. Mutations in this gene cause juvenile myoclonic epilepsy and childhood absence epilepsy type 4. Multiple transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for GABRA1	GABRA1: 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. Defects in GABRA1 are the cause of childhood absence epilepsy type 4 (ECA4). A subtype of idiopathic generalized epilepsy characterized by onset at age 6-7 years, frequent absence seizures (several per day) and bilateral, synchronous, symmetric 3-Hz spike waves on EEG. During adolescence, tonic-clonic and myoclonic seizures may develop. Absence seizures may either remit or persist into adulthood. Defects in GABRA1 are the cause of juvenile myoclonic epilepsy type 5 (EJM5). A subtype of idiopathic generalized epilepsy. Patients have afebrile seizures only, with onset in adolescence (rather than in childhood) and myoclonic jerks which usually occur after awakening and are triggered by sleep deprivation and fatigue. Belongs to the ligand-gated ion channel (TC 1.A.9) family. Gamma-aminobutyric acid receptor (TC 1.A.9.5) subfamily. GABRA1 sub-subfamily. Protein type: Membrane protein, integral; Channel, ligand-gated; Transporter, ion channel; Membrane protein, multi-pass; Transporter Chromosomal Location of Human Ortholog: 5q34 Cellular Component: postsynaptic membrane; integral to plasma membrane; plasma membrane; cell junction Molecular Function: chloride channel activity; GABA-A receptor activity; GABA receptor activity; drug binding; extracellular ligand-gated ion channel activity Biological Process: synaptic transmission; transport; synaptic transmission, GABAergic; transmembrane transport; gamma-aminobutyric acid signaling pathway Disease: Epilepsy, Idiopathic Generalized, Susceptibility To, 13; Epileptic Encephalopathy, Early Infantile, 19

Research Articles on GABRA1	**1.** GHRH expression was significantly increased in patients with temporal lobe epilepsy. Coimmunoprecipitation confirmed that GHRH interacted with GABAAalpha1 and GABAAbeta2 + 3. GHRH may play an important role in inhibiting seizures by activating GABAARs.
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