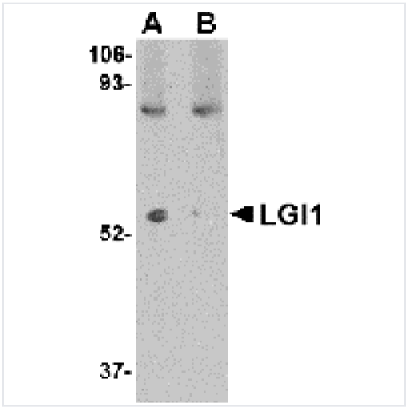
LGI1 Blocking Peptide

PRODUCT OVERVIEW

Product Name	LGI1, Blocking Peptide
Full Product Name	LGI1 Peptide
Product Gene Name	LGI1 blocking peptide
Product Synonym Names	EPT; ETL1; ADLTE; ADPAEF; ADPEAF; IB1099; EPITEMPIN; EPT; UNQ775/PRO1569; Leucine-rich glioma-inactivated protein 1; Epitempin-1; leucine-rich, glioma inactivated 1
Form/Format	Liquid
Concentration	200 ug/mL (lot specific)
Preparation and Storage	Store LGI1 peptide at -20 degree C, stable for one year.
Antibody/Peptide Pairs	LGI1 peptide (MBS153261) is used for blocking the activity of LGI1 antibody (MBS151574)
Molecular Weight	58,302 Da
OMIM	phenotype 604619
Species	Human
Buffer	PBS pH 7.2 (10 mM NaH2PO4, 10 mM Na2HPO4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide
Location	13 amino acids near the amino terminus of human LGI1.
Applications Tested/Suitable for LGI1 blocking peptide	Blocking (BL)
Application Notes for LGI1 blocking peptide	LGI1 peptide is used for blocking the activity of LGI1 antibody.
Related Product Information for LGI1 blocking peptide	MBS153261 is a blocking peptide targeting LGI1. Also known as LGI1 Peptide.
Other Notes	Small volumes of LGI1 blocking peptide 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.



Western Blot (WB) of LGI1 blocking peptide
Western blot analysis of LGI1 in mouse brain tissue lysate with LGI1 antibody at 1 ?g/mL in (A) the absence and (B) the presence of blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LGI1. It may not necessarily be applicable to this product.

NCBI GI #	37182888
NCBI GeneID	9211
NCBI Accession #	AAQ89244
UniProt Primary Accession #	O95970
UniProt Secondary Accession #	Q5W001; Q5W002; Q8NI23; Q96LF5; A8K0Z1; B4E1S0
UniProt Related Accession #	O95970
NCBI Official Full Name	LGI1
NCBI Official Synonym Full Names	leucine-rich, glioma inactivated 1
NCBI Official Symbol	LGI1
NCBI Official Synonym Symbols	EPT; ETL1; ADLTE; ADPAEF; ADPEAF; IB1099; EPITEMPIN
UniProt Protein Name	Leucine-rich glioma-inactivated protein 1
UniProt Synonym Protein Names	Epitempin-1
Protein Family	Leucine-rich glioma-inactivated protein
UniProt Gene Name	LGI1
UniProt Synonym Gene Names	EPT
UniProt Entry Name	LGI1_HUMAN
NCBI Protein Information	leucine-rich glioma-inactivated protein 1; epitempin-1
NCBI Summary for LGI1	This gene is rearranged as a result of translocations in glioblastoma cell lines. The protein contains a hydrophobic segment representing a putative transmembrane domain with the amino terminus located outside the cell. It also contains leucine-rich repeats with conserved cysteine-rich flanking sequences. This gene is predominantly expressed in neural tissues and its expression is reduced in low grade brain tumors and significantly reduced or absent in malignant gliomas. Mutations in this gene result in autosomal dominant lateral temporal epilepsy. [provided by RefSeq, Jul 2008]
UniProt Comments for LGI1	LGI1: Regulates voltage-gated potassium channels assembled from KCNA1, KCNA4 and KCNAB1. It slows down channel inactivation by precluding channel closure mediated by the KCNAB1 subunit. Ligand for ADAM22 that positively regulates synaptic transmission mediated by AMPA-type glutamate receptors. Plays a role in suppressing the production of MMP1/3 through the phosphatidylinositol 3-kinase/ERK pathway. May play a role in the control of neuroblastoma cell survival. Defects in LGI1 are the cause of epilepsy, familial temporal lobe, type 1 (ETL1). A focal form of epilepsy characterized by recurrent seizures that arise from foci within the temporal lobe. Seizures are usually accompanied by sensory symptoms, most often auditory in nature. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 10q24 Cellular Component: extracellular space; extracellular region; synapse; cell junction Molecular Function: protein binding; receptor binding Biological Process: nervous system development; cell proliferation; axon guidance; positive regulation of cell growth; protein homooligomerization; positive regulation of synaptic transmission; neurite development Disease: Epilepsy, Familial Temporal Lobe, 1
Research Articles on LGI1	**1.** study found no cryptic imbalances were in LGI1 in partial epilepsy with auditory features (PEAF) patients, suggesting that LGI1 microdeletions are not a frequent cause of PEAF

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