

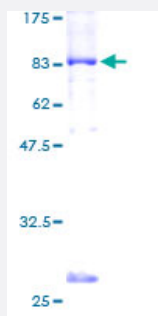
Full-Length

LGI1 (Human) Recombinant Protein (P01)

Catalog # H00009211-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human LGI1 full-length ORF (AAH22500, 1 a.a. - 557 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MESERSKRMGNACIPLKRIAYFLCLLSALLL TEGKKPAKPKCPAVCTCTKDNCENARSIPRTVP
PDVISLSFVRSGFTEISEGSFLFTPQLLLFTSNSFDVISDDAFIGLPHLEYLFIENNNIKSISRHTFR
GLKSLIHLSLANNLQTLPKDIFKGLDSL TNVDLRGNSFNCDCKLKWLVWLGHTNATVEDIYCEG
PPEYKKRKINSLSSKDFDCIITEFAKSQDLPYQSLSIDTFSYLNDEYVVAQPFTGKCIFLEWDHVEK
TFRNYDNITGTSTVVCKPMIETQLYVVAQLFGGSHYKRDSFANKFIQDIEILKIRKPNDIETFKIENN
WYFVVADSSKAGFTTIYKWNGNGFYSHQSLHAWYRDTDVEYLEIVRTPQTLRTPHLILSSSSQRPVI
YQWINKATQLFTNQTDIPNMEDVYAVKHFSVKGDVYICLTRFIGDSKVMKWGGSSSQDIQRMPSRG
SMVFQPLQINNYQYAILGSDYSFTQVYNWDAEKAKFVKFQELNVQAPRSFTHVSINKRNFLFASSF
KGNTQIYKHVVDLSA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

86.79

Interspecies Antigen Sequence

Mouse (96); Rat (96)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — LGI1

Entrez GeneID	9211
GeneBank Accession#	BC022500
Protein Accession#	AAH22500
Gene Name	LGI1
Gene Alias	EPITEMPIN, EPT, ETL1, IB1099
Gene Description	leucine-rich, glioma inactivated 1
Omim ID	137800 600512 604619
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	OTTHUMP00000020121 epilepsy, partial

Publication Reference

- [LGI1 antibodies alter Kv1.1 and AMPA receptors changing synaptic excitability, plasticity and memory.](#)

Petit-Pedrol M, Sell J, Planagumà J, Mannara F, Radosevic M, Haselmann H, Ceanga M, Sabater L, Spatola M, Soto D, Gasull X, Dalmau J, Geis C.

Brain 2018 Nov; 141(11):3144.

Application: WB-Re, Human, HEK 293 cells

Disease

- [Alzheimer Disease](#)
- [Depressive Disorder](#)
- [Epilepsies](#)
- [Epilepsy](#)
- [Genetic Predisposition to Disease](#)