

KD-Validated Anti-LGI1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1024

Product Information

Application	WB, FC, ICC
Primary Accession	O95970
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB5950
Calculated MW	63818
Gene Name	LGI1
Aliases	LGI1; Leucine Rich Glioma Inactivated 1; Epitempin-1; EPITEMPIN; IB1099; ETL1; EPT; Leucine-Rich Glioma-Inactivated Protein 1; Epilepsy, Partial; ADPAEF; ADPEAF; ADLTE
Immunogen	A synthesized peptide derived from human Lgi1

Additional Information

Gene ID	9211
Other Names	Leucine-rich glioma-inactivated protein 1, Epitempin-1, LGI1, EPT

Protein Information

Name	LGI1 {ECO:0000303 PubMed:9879993, ECO:0000312 HGNC:HGNC:6572}
Function	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 (By similarity). Plays a role in suppressing the production of MMP1/3 through the phosphatidylinositol 3-kinase/ERK pathway (PubMed: 15047712).
Cellular Location	Secreted. Synapse {ECO:0000250 UniProtKB:Q8K4Y5} Cytoplasm {ECO:0000250 UniProtKB:Q9JIA1} [Isoform 2]: Endoplasmic reticulum. Cytoplasm {ECO:0000250 UniProtKB:Q9JIA1}
Tissue Location	[Isoform 1]: Expressed in the occipital cortex and hippocampus; higher amounts are observed in the parietal and frontal cortices, putamen, and, particularly, in the temporal neocortex, where it is between 3 and 5 times more abundant than in the hippocampus (at protein level) (PubMed:16787412). Expression is absent in the cerebellum (PubMed:16787412).

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