

**LGI1 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6769c****Specification**

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**LGI1 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [O95970](#)**LGI1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 9211**Other Names**

Leucine-rich glioma-inactivated protein 1, Epitempin-1, LGI1, EPT

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6769c](/products/AP6769c) was selected from the Center region of human LGI1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**LGI1 Antibody (Center) Blocking Peptide - Protein Information****Name** LGI1**Synonyms** EPT**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. May play a role in the control of neuroblastoma cell survival.

**Cellular Location**

Secreted. Synapse {ECO:0000250|UniProtKB:Q8K4Y5}. Cytoplasm {ECO:0000250|UniProtKB:Q9JIA1} [Isoform 2]: Endoplasmic reticulum. Cytoplasm

{ECO:0000250|UniProtKB:Q9JIA1}

**Tissue Location**

Predominantly expressed in neural tissues, especially in brain. Expression is reduced in low-grade brain tumors and significantly reduced or absent in malignant gliomas [Isoform 3]: Abundantly expressed in the occipital cortex and weakly expressed in the hippocampus (at protein level)

**LGI1 Antibody (Center) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**LGI1 Antibody (Center) Blocking Peptide - Images****LGI1 Antibody (Center) Blocking Peptide - Background**

LGI1 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.

**LGI1 Antibody (Center) Blocking Peptide - References**

de Bellescize, J., et.al., Epilepsy Res. 85 (1), 118-122 (2009)