

LLGL1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2197a**Specification**

LLGL1 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q15334](#)**LLGL1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 3996**Other Names**

Lethal(2) giant larvae protein homolog 1, LLGL, DLG4, Hugl-1, Human homolog to the D-lgl gene protein, LLGL1, DLG4, HUGL, HUGL1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2197a](/product/products/AP2197a) was selected from the N-term region of human LLGL1. 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.

LLGL1 Antibody (N-term) Blocking Peptide - Protein Information**Name** LLGL1**Synonyms** DLG4, HUGL, HUGL1**Function**

Cortical cytoskeleton protein found in a complex involved in maintaining cell polarity and epithelial integrity. Involved in the regulation of mitotic spindle orientation, proliferation, differentiation and tissue organization of neuroepithelial cells. Involved in axonogenesis through RAB10 activation thereby regulating vesicular membrane trafficking toward the axonal plasma membrane.

Cellular Location

Early endosome membrane. Golgi apparatus, trans-Golgi network membrane. Golgi apparatus membrane. Cell projection, axon. Cytoplasm, cytoskeleton Note=Localized to the lateral membrane during the polarization and formation cell-cell contacts. Enriched in developing axons

(By similarity).

Tissue Location

Expressed in brain, kidney, and muscle but is barely seen in heart and placenta. Down-regulated or lost in all cell lines and in most of the tumor samples analyzed. Loss was associated with advanced stage of the disease.

LLGL1 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

LLGL1 Antibody (N-term) Blocking Peptide - Images**LLGL1 Antibody (N-term) Blocking Peptide - Background**

LLGL1 is a protein that is similar to a tumor suppressor in *Drosophila*. The protein is part of a cytoskeletal network and is associated with nonmuscle myosin II heavy chain and a kinase that specifically phosphorylates this protein at serine residues. The gene for LLGL1 is located within the Smith-Magenis syndrome region on chromosome 17.

LLGL1 Antibody (N-term) Blocking Peptide - References

Schimanski, C.C., et al., *Oncogene* 24(19):3100-3109 (2005). Grifoni, D., et al., *Oncogene* 23(53):8688-8694 (2004). Katoh, M., et al., *Int. J. Oncol.* 24(3):737-742 (2004). Bi, W., et al., *Genome Res.* 12(5):713-728 (2002). Ludford-Menting, M.J., et al., *J. Biol. Chem.* 277(6):4477-4484 (2002).