

DLG1 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP21841c**Specification**

DLG1 Blocking Peptide (Center) - Product InformationPrimary Accession [Q12959](#)**DLG1 Blocking Peptide (Center) - Additional Information****Gene ID** 1739**Other Names**

Disks large homolog 1, Synapse-associated protein 97, SAP-97, SAP97, hDlg, DLG1

Target/Specificity

The synthetic peptide sequence is selected from aa 663-673 of HUMAN DLG1

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.

DLG1 Blocking Peptide (Center) - Protein Information**Name** DLG1 ([HGNC:2900](#))**Function**

Essential multidomain scaffolding protein required for normal development (By similarity). Recruits channels, receptors and signaling molecules to discrete plasma membrane domains in polarized cells. May play a role in adherens junction assembly, signal transduction, cell proliferation, synaptogenesis and lymphocyte activation. Regulates the excitability of cardiac myocytes by modulating the functional expression of Kv4 channels. Functional regulator of Kv1.5 channel. During long-term depression in hippocampal neurons, it recruits ADAM10 to the plasma membrane (PubMed:23676497).

Cellular Location

Membrane; Peripheral membrane protein. Basolateral cell membrane. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:Q62696}. Postsynaptic density {ECO:0000250|UniProtKB:Q62696}. Synapse {ECO:0000250|UniProtKB:Q62696} Cell membrane, sarcolemma. Apical cell membrane. Cell junction. Cytoplasm Note=Colocalizes with EPB41 at regions of intercellular contacts Basolateral in epithelial cells (PubMed:12807908). May also associate with endoplasmic reticulum membranes. Mainly found in neurons soma, moderately

found at postsynaptic densities (By similarity) {ECO:0000250|UniProtKB:Q62696, ECO:0000269|PubMed:10859302, ECO:0000269|PubMed:12807908, ECO:0000269|PubMed:8922391, ECO:0000269|PubMed:9192623}

Tissue Location

Abundantly expressed in atrial myocardium (at protein level). Expressed in lung fibroblasts, cervical epithelial and B-cells (at protein level). Expressed in the brain (at protein level) (PubMed:23676497). Widely expressed, with isoforms displaying different expression profiles.

DLG1 Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

DLG1 Blocking Peptide (Center) - Images

DLG1 Blocking Peptide (Center) - Background

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DLG1 Blocking Peptide (Center) - References

Lue R.A.,et al.Proc. Natl. Acad. Sci. U.S.A. 91:9818-9822(1994).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Muzny D.M.,et al.Nature 440:1194-1198(2006).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.