

DLG1 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21841c**Specification**

DLG1 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q12959
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	100455

DLG1 Antibody (Center) - Additional Information**Gene ID** 1739**Other Names**

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

Target/Specificity

This DLG1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 643-673 amino acids from the Central region of human DLG1.

Dilution

WB~~1:2000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

DLG1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

DLG1 Antibody (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. Promotes epithelial cell layer barrier function via maintaining cell-cell adhesion (By similarity). May also 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

Cell 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

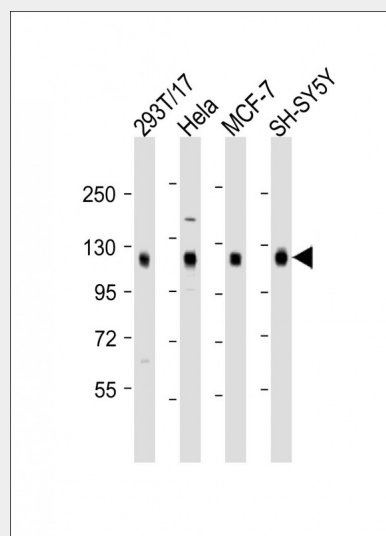
Abundantly expressed in atrial myocardium (at protein level). Expressed in lung fibroblasts, cervical epithelial and B-cells (at protein level). Expressed in the brain (at protein level) (PubMed:23676497). Widely expressed, with isoforms displaying different expression profiles.

DLG1 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DLG1 Antibody (Center) - Images



All lanes : Anti-DLG1 Antibody (Center) at 1:2000 dilution Lane 1: 293T/17 whole cell lysate Lane

2: Hela whole cell lysate Lane 3: MCF-7 whole cell lysate Lane 4: SH-SY5Y whole cell lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated
at 1/10000 dilution. Predicted band size : 100 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

DLG1 Antibody (Center) - Background

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.

DLG1 Antibody (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.