

## Rabbit DLG1 Polyclonal Antibody | anti-DLG1 antibody

DLG1 Antibody

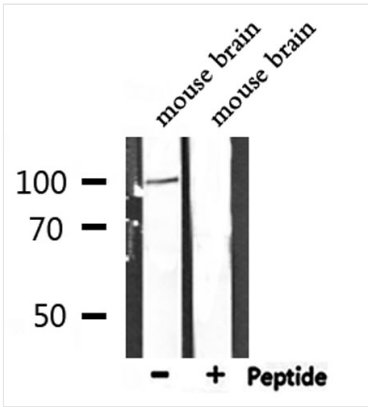
|                               |                       |                                        |                                            |
|-------------------------------|-----------------------|----------------------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA327490</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------------------|--------------------------------------------|

### PRODUCT SYNONYMS

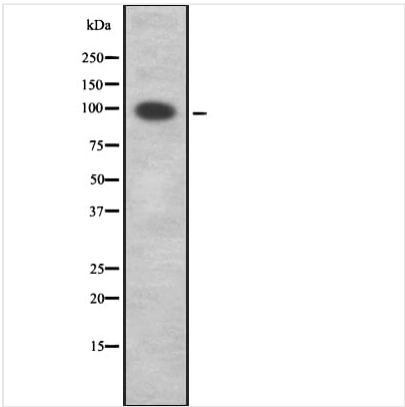
DLG1; Polyclonal Antibody; DLG1 Antibody; Discs large homolog 1; discs large; Drosophila; homolog of; 1; discs; large homolog 1 (Drosophila); Disks large homolog 1; dJ1061C18.1.1; DKFZp761P0818; DKFZp781B0426; DLG 1; DLG1\_HUMAN; DLGH 1; DLGH1; hDlg; Presynaptic protein SAP97; SAP 97; SAP-97; SAP97; Synapse associated protein 97; Synapse-associated protein 97; anti-DLG1 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Reactivity                                     | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype                                        | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Specificity                                    | DLG1 antibody detects endogenous levels of total DLG1                                                                                                                                                                                                                                                                                                                                                                                              |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                                                                                                                                                                                                                                                      |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                                                                                                                                                                                      |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Sequence Length                                | 904                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Applicable Applications for anti-DLG1 antibody | ELISA, WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Immunogen                                      | A synthesized peptide derived from human DLG1                                                                                                                                                                                                                                                                                                                                                                                                      |
| Subcellular Location                           | Membrane. Basolateral Cell Membrane. Endoplasmic Reticulum Membrane. Cell Junction, Synapse, Postsynaptic Cell Membrane, Postsynaptic Density. Cell Junction, Synapse. Cell Membrane, Sarcolemma. Colocalizes with EPB41 at regions of intercellular contacts. Basolateral in epithelial cells. May also associate with endoplasmic reticulum membranes. Mainly found in neurons soma, moderately found at postsynaptic densities (By similarity). |
| Tissue Specificity                             | Abundantly expressed in atrial myocardium (at protein level). Expressed in lung fibroblasts, cervical epithelial and B-cells (at protein level). Widely expressed, with isoforms displaying different expression profiles.                                                                                                                                                                                                                         |
| Predicted Cross Reactivity                     | <b>Bovine, Horse</b>                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Similarity                                     | Bovine (100%), Horse (100%)                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Conjugation                                    | Unconjugated                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                                                                                                                                                                                                                  |



WB (Western Blot)  
Western blot analysis of extracts from mouse brain, using DLG1 Antibody.



WB (Western Blot)  
Western blot analysis of DLG1 using Jurkat whole cell lysates

ADDITIONAL INFORMATION

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| Related Product Information for anti-DLG1 antibody | <p>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.</p> <p>Subunit Structure: Homotetramer (Probable). Interacts (via guanylate kinase-like domain) with DLGAP1, DLGAP2, DLGAP3, DLGAP4 and MAP1A (By similarity). Interacts (via guanylate kinase-like domain) with KIF13B (PubMed:10859302). May interact with HTR2A (By similarity). Interacts (via PDZ domains) with GRIA1 (By similarity). Interacts (via PDZ domains) with GRIN2A (By similarity). Interacts (via PDZ domains) with KCND2 and KCND3 (PubMed:19213956). Interacts (via PDZ domains) with KCNA1, KCNA2, KCNA3 and KCNA4 (PubMed:7477295). Interacts (via PDZ domains) with ADGRA3 (PubMed:15021905). Interacts with KCNF1 (PubMed:12445884). Interacts with CAMK2 (By similarity). Interacts with cytoskeleton-associated protein EPB41 (PubMed:7937897, PubMed:8922391). Interacts with cytoskeleton-associated protein EZR (By similarity). Found in a complex with KCNA5 and CAV3 (By similarity). Found in a complex with APC and CTNNB1 (PubMed:8638125, PubMed:10656683). Interacts with CDH1 through binding to PIK3R1 (PubMed:14699157). Forms multiprotein complexes with CASK, LIN7A, LIN7B, LIN7C, APBA1, and KCNJ12 (By similarity). Interacts with TOPK (PubMed:10779557). Forms a tripartite complex composed of DLG1, MPP7 and LIN7 (LIN7A or LIN7C) (PubMed:17237226, PubMed:17332497, PubMed:20702775). May interact with TJAP1 (PubMed:11602598). Interacts with PTEN (By similarity). Interacts with FRMPD4 (via C-terminus) (PubMed:19118189). Interacts with LRFN1, LRFN2 and LRFN4 (PubMed:16630835). Interacts with SFPQ (PubMed:20605917). Interacts (via PDZ domains) with ADGRA2 (via PDZ-binding motif) (PubMed:15021905, PubMed:25558062). Interacts with the HTLV-1 viral Tax and HPV-18 E6 papillomavirus (HPV) oncoproteins (PubMed:9192623, PubMed:10557085).</p> <p>Post-translational Modifications: Phosphorylated by MAPK12. Phosphorylation of Ser-232 regulates association with GRIN2A (By similarity).</p> <p>Similarity: The alternatively spliced domain I3 corresponding to amino acids (636-669) of isoform 4 is an EPB41 binding site mediating association to membranes in polarized and non-polarized cells. The PDZ domains may also mediate association to membranes by binding to EPB41 and ADGRA2 together with the L27 domain that binds CASK and DLG2. The L27 domain may regulate DLG1 self-association. The N-terminal alternatively spliced region is capable of binding several SH3 domains and also moderates the level of protein oligomerization. Belongs to the MAGUK family.</p> |
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NCBI AND UNIPROT INFORMATION

|                           |                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------|
| NCBI GI #                 | 148539628                                                                              |
| NCBI GeneID               | 1739                                                                                   |
| NCBI Accession #          | NP_001091894.1                                                                         |
| NCBI GenBank Nucleotide # | NM_001098424.1                                                                         |
| UniProt Accession #       | Q12959; Q12958; A5YKK7; B4DGU1; B4DGZ8; B7ZMM0; B9EIQ5; D3DXB8; D3DXB9; E7EWL7; E9PG21 |

|                                  |                                         |
|----------------------------------|-----------------------------------------|
| Molecular Weight                 | Observed: 100 kDa<br>Predicted: 101 kDa |
| NCBI Official Full Name          | disks large homolog 1 isoform 1         |
| NCBI Official Synonym Full Names | discs large MAGUK scaffold protein 1    |
| NCBI Official Symbol             | DLG1                                    |
| NCBI Official Synonym Symbols    | hdlg; DLGH1; SAP97; SAP-97              |
| NCBI Protein Information         | disks large homolog 1                   |
| UniProt Protein Name             | Disks large homolog 1                   |
| UniProt Gene Name                | <b>DLG1</b>                             |
| UniProt Synonym Gene Names       | SAP-97; SAP97                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/polyclonal/dlg1-antibody-western-blot-elisa/327490>