

## DLG1 Polyclonal Antibody

<b>Catalog No :</b>	YN2821
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	DLG1
<b>Fields :</b>	>>Hippo signaling pathway;>>Tight junction;>>T cell receptor signaling pathway;>>Human papillomavirus infection;>>Human T-cell leukemia virus 1 infection;>>Viral carcinogenesis
<b>Gene Name :</b>	DLG1
<b>Protein Name :</b>	Disks large homolog 1 (Synapse-associated protein 97) (SAP-97) (SAP97) (hDlg)
<b>Human Gene Id :</b>	1739
<b>Human Swiss Prot No :</b>	Q12959
<b>Mouse Swiss Prot No :</b>	Q811D0
<b>Rat Swiss Prot No :</b>	Q62696
<b>Immunogen :</b>	Synthesized peptide derived from part region of human protein AA range: 70-120
<b>Specificity :</b>	DLG1 Polyclonal Antibody detects endogenous levels of protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 99kD

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**Cell Pathway :** T\_Cell\_Receptor;

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**Background :** This gene encodes a multi-domain scaffolding protein that is required for normal development. This protein may have a role in septate junction formation, signal transduction, cell proliferation, synaptogenesis and lymphocyte activation. Several alternatively spliced transcript variants encoding different isoforms have been described for this gene, but the full-length nature of some of the variants is not known. [provided by RefSeq, Feb 2011],

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**Function :** domain: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.,domain: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.,domain:The PDZ domains may also mediate association to membranes by binding to EPB41 and GPR124 together with the L27 domain that binds CASK and DLG2.,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 ex

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**Subcellular Location :** Membrane ; Peripheral membrane protein . Basolateral cell membrane . Endoplasmic reticulum membrane . Cell junction, synapse, postsynaptic density . Cell junction, synapse . Cell membrane, sarcolemma . Apical cell membrane . Cell junction . Cytoplasm . 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) .

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**Expression :** 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.

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