

Goat Anti-DLG1 Antibody

Peptide-affinity purified goat antibody Catalog # AF1328a

Specification

Goat Anti-DLG1 Antibody - Product Information

Application WB
Primary Accession Q12959

Other Accession <u>NP_004078</u>, <u>1739</u>

Reactivity
Predicted
Host
Clonality
Concentration

Human
Mouse, Rat
Goat
Polyclonal
100ug/200ul

Isotype IgG
Calculated MW 100455

Goat Anti-DLG1 Antibody - Additional Information

Gene ID 1739

Other Names

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

Format

0.5 mg lgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-DLG1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-DLG1 Antibody - 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

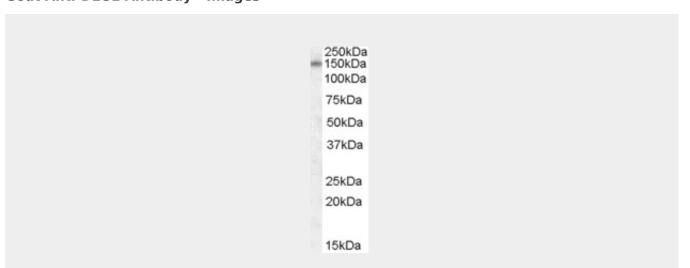
Abundantly expressed in atrial myocardium (at protein level). Expressed in lung fibroblasts, cervical epithelial and B-cells (at protein level). Expressed in the brain (at protein level) (PubMed:23676497). Widely expressed, with isoforms displaying different expression profiles.

Goat Anti-DLG1 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-DLG1 Antibody - Images

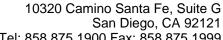


AF1328a (0.3 μ g/ml) staining of KELLY lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-DLG1 Antibody - References

Microdeletions of 3q29 confer high risk for schizophrenia. Mulle JG, et al. Am J Hum Genet, 2010 Aug 13. PMID 20691406.

ERK5 pathway regulates the phosphorylation of tumour suppressor hDlg during mitosis.







I□esta-Vaquera FA, et al. Biochem Biophys Res Commun, 2010 Aug 13. PMID 20643107. Ezrin tunes T-cell activation by controlling Dlg1 and microtubule positioning at the immunological synapse. Lasserre R, et al. EMBO J, 2010 Jul 21. PMID 20551903.

Comprehensive copy number variant (CNV) analysis of neuronal pathways genes in psychiatric disorders identifies rare variants within patients. Saus E, et al. J Psychiatr Res, 2010 Apr 14. PMID 20398908.

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.