

Recombinant Human DLG1 cell lysate

Cat. No. DLG1-9483HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human DLG1 cell lysate, transcript variant 2, was derived from Human HEK293T cell line.
Species	Human
Source	HEK293
Description	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.
Form	1 vial of 100 g gene specific transient over-expression cell lysate in RIPA buffer(25mM Tris-HCl pH7.6, 150mM NaCl, 1% NP-40, 1mM EDTA, 1xProteinase inhibitor cocktail mix (Sigma), 1mM PMSF and 1mM Na3VO4). 1 vial of 100 g empty vector transfected control cell lysate in RIPA buffer. 1 vial of 250ul 2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromphenol blue, 100mM DTT).
Molecular Mass	103.8 kDa
Storage	The lysate is shipped with dry ice. Upon receiving, store the sample at -20 centigrade. Lysate samples are stable for 12 months from date of receipt when stored at -20 centigrade. Avoid repeated freeze-thaw cycles.

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Lysate samples can be diluted with 2xSDS Sample Buffer provided. After dilution, the protein sample should be aliquoted and stored at -20 centigrade for long term storage. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name	DLG1 discs, large homolog 1 (Drosophila) [Homo sapiens]
Official Symbol	DLG1
Synonyms	DLG1; discs, large homolog 1 (Drosophila); discs, large (Drosophila) homolog 1; disks large homolog 1; discs large homolog 1; dJ1061C18.1.1; DLGH1; hdlg; presynaptic protein SAP97; SAP 97; SAP97; synapse associated protein 97; synapse-associated protein 97; SAP-97; DKFZp761P0818; DKFZp781B0426;
Gene ID	1739
mRNA Refseq	NM_004087
Protein Refseq	NP_004078
MIM	601014
UniProt ID	Q12959
Chromosome Location	3q29
Pathway	Activation of Ca-permeable Kainate Receptor, organism-specific biosystem; Activation of Kainate Receptors upon glutamate binding, organism-specific biosystem; Axon guidance, organism-specific biosystem; CDC42 signaling events,

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organism-specific biosystem; Developmental Biology, organism-specific biosystem; E-cadherin signaling in the nascent adherens junction, organism-specific biosystem; Glutamate Binding, Activation of AMPA Receptors and Synaptic Plasticity, organism-specific biosystem;

Function

L27 domain binding; cytoskeletal protein binding; guanylate kinase activity; phosphatase binding; phosphoprotein phosphatase activity; potassium channel regulator activity; protein C-terminus binding; protein binding; protein kinase binding;

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