Recombinant Human DLG4

Cat. No. DLG4-31002TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 665-766 of Human PSD95 isoform 2 with a N terminal proprietary tag; predicted MWt 36.85 kDa inclusive of tag
Species	Human
Source	Wheat Germ
ProteinLength	102 amino acids
Description	This gene encodes a member of the membrane-associated guanylate kinase (MAGUK) family. It heteromultimerizes with another MAGUK protein, DLG2, and is recruited into NMDA receptor and potassium channel clusters. These two MAGUK proteins may interact at postsynaptic sites to form a multimeric scaffold for the clustering of receptors, ion channels, and associated signaling proteins. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	36.850kDa inclusive of tags
Tissue specificity	Brain.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	QGKHCILDVSANAVRRLQAAHLHPIAIFIRPRSLENVLEI NKRITEEQARKAFDRATKL EQEFTECFSAIVEGDSFEEIY HKVKRVIEDLSGPYIWVPARER
Sequence Similarities	Belongs to the MAGUK family.Contains 1 guanylate kinase-like domain.Contains 3 PDZ (DHR) domains.Contains 1 SH3 domain.

GENE INFORMATION

Gene Name	DLG4 discs, large homolog 4 (Drosophila) [Homo sapiens]
Official Symbol	DLG4
Synonyms	DLG4; discs, large homolog 4 (Drosophila); disks large homolog 4; PSD 95; PSD95; SAP 90; SAP90;
Gene ID	1742
mRNA Refseq	NM_001128827
Protein Refseq	NP_001122299
MIM	602887
Uniprot ID	P78352
Chromosome Location	17p13.1
Pathway	Activation of Ca-permeable Kainate Receptor, organism-specific biosystem;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	Activation of Kainate Receptors upon glutamate binding, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Axon guidance, organism-specific biosystem; CREB phosphorylation through the activation of CaMKII, organism-specific biosystem;
Function	protein C-terminus binding; protein binding; scaffold protein binding;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA