

## Recombinant Mouse Dlg4 Protein, His-tagged

**Cat. No.** Dlg4-1346M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | Recombinant Mouse Dlg4 Protein (Met1-Ser393) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | Met1-Ser393                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | <p>Enables ionotropic glutamate receptor binding activity and scaffold protein binding activity. Involved in several processes, including dendritic spine morphogenesis; locomotory exploration behavior; and neurotransmitter receptor localization to postsynaptic specialization membrane. Acts upstream of or within protein localization to synapse; regulation of long-term neuronal synaptic plasticity; and synaptic vesicle maturation. Located in several cellular components, including axon; postsynaptic density membrane; and synaptic vesicle. Is extrinsic component of cytoplasmic side of plasma membrane. Part of AMPA glutamate receptor complex. Is active in glutamatergic synapse. Colocalizes with postsynaptic membrane. Is expressed in central nervous system; dorsal root ganglion; olfactory epithelium; and retina. Used to study Williams-Beuren syndrome and autism spectrum disorder. Human ortholog(s) of this gene implicated in autosomal dominant non-syndromic intellectual disability. Orthologous to human DLG4 (discs large MAGUK scaffold protein 4).</p> |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|                       |                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | Predicted Molecular Mass: 46.1 kDa<br>Accurate Molecular Mass: 76 kDa                                                                                                                                                                                                                                                                        |
| <b>Purity</b>         | > 97%                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                         |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Dlg4 discs, large homolog 4 (Drosophila) [ Mus musculus (house mouse) ]                                                                                                                                                             |
| <b>Official Symbol</b> | Dlg4                                                                                                                                                                                                                                |
| <b>Synonyms</b>        | DLG4; discs, large homolog 4 (Drosophila); disks large homolog 4; SAP-90; PSD-95 beta; PSD-95 alpha 2b; discs large homolog 4; synapse-associated protein 90; postsynaptic density protein 95; Dlgh4; PSD95; SAP90; PSD-95; SAP90A; |
| <b>Gene ID</b>         | 13385                                                                                                                                                                                                                               |

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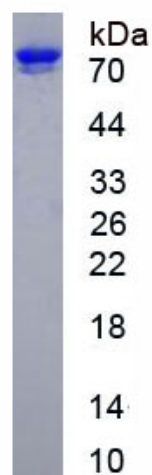
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mRNA Refseq [NM\\_001109752](#)

Protein Refseq [NP\\_001103222](#)

UniProt ID [Q62108](#)



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