

Recombinant Mouse Dlg4 Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Mouse Dlg4 Protein (Met1-Ser393) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Met1-Ser393
Description	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).
Form	Freeze-dried powder

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Molecular Mass	Predicted Molecular Mass: 46.1 kDa Accurate Molecular Mass: 76 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Dlg4 discs, large homolog 4 (Drosophila) [Mus musculus (house mouse)]
Official Symbol	Dlg4
Synonyms	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;
Gene ID	13385

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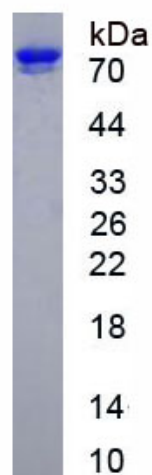
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mRNA Refseq [NM_001109752](#)

Protein Refseq [NP_001103222](#)

UniProt ID [Q62108](#)



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