

Datasheet for ABIN7318409 **DLG4 Protein (His tag)**

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Overview

Quantity:	50 µg
Target:	DLG4
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DLG4 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human DLG4 Protein (His Tag)
Sequence:	Met 1-Leu724
Characteristics:	Recombinant Human Postsynaptic Density Protein 95 is produced by our E.coli expression system and the target gene encoding Met1-Leu724 is expressed with a 6His tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	DLG4
Alternative Name:	DLG4 (DLG4 Products)
Background:	Background: Disks large homolog 4(DLG4) is a cell membrane protein and it is a member of the membrane-associated guanylate kinase (MAGUK) family. The protein contains 1 guanylate

Target Details

kinase-like domain, 3 PDZ (DHR) domains and 1 SH3 domain. With PSD-93 it is recruited into the same 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. DLG4 is the best studied member of the MAGUK-family of PDZ domain-containing proteins. Like all MAGUK-family proteins, its basic structure includes three PDZ domains, an SH3 domain, and a guanylate kinase-like domain (GK) connected by disordered linker regions. It is almost exclusively located in the post synaptic density of neurons, and is involved in anchoring synaptic proteins. Its direct and indirect binding partners include neuroligin, NMDA receptors, AMPA receptors, and potassium channels. Synonym: Disks large homolog 4, Postsynaptic density protein 95, PSD-95, Synapse-associated protein 90, SAP-90, SAP90, PSD95, DLG4

Molecular Weight: 81.9 kDa

UniProt: [P78352](#)

Pathways: [Regulation of Muscle Cell Differentiation](#), [Synaptic Membrane](#), [Skeletal Muscle Fiber Development](#), [Asymmetric Protein Localization](#), [Regulation of long-term Neuronal Synaptic Plasticity](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.