OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TP724832

PSD95 (DLG4) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human PSD95/Disks large homolog 4/DLG4(N-His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Met1-Leu724
Tag:	N-6His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH7.4
Note:	Recombinant Human PSD95 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.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-5 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	1742
UniProt ID:	P78352
Synonyms:	Disks large homolog 4; Postsynaptic density protein 95; PSD-95; Synapse-associated protein90; SAP-90; SAP90; PSD95; DLG4
Summary:	Postsynaptic density protein 95 (PSD-95), also known as disks large homolog 4(DLG4) is a cell membrane protein that is a member of the membrane-associated guanylate kinase (MAGUK) family. DLG4 is recruited into the same NMDA receptor and potassium channel clusters as PSD-93. 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. It is nearly exclusively located in the post-synaptic density of neurons and plays a role in anchoring synaptic proteins. Its direct and indirect binding partners include neuroligin, NMDA receptors, AMPA receptors, and potassium channels. DLG4 is also involved in synaptic plasticity and the stabilization of synaptic changes during long-term potentiation. A recent study showed that clinical manifestations associated with DLG4 overlapping with those found in other neurodevelopmental disorders of synaptic dysfunction.

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Protein Families: Druggable Genome

Protein Pathways: Huntington's disease