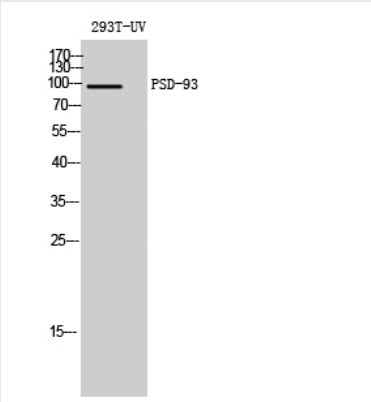
PSD-93 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PSD-93, Polyclonal Antibody
Full Product Name	PSD-93 Polyclonal Antibody
Product Gene Name	anti-PSD-93 antibody
Product Synonym Gene Name	DLG2
Product Synonym Names	DLG2; Disks large homolog 2; Channel-associated protein of synapse-110; Chapsyn-110; Postsynaptic density protein PSD-93
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	97,552 Da
Chromosome Location	Chromosome: 11; NC_000011.9 (83166055..85338314, complement). Location: 11q14.1
OMIM	603583
3D Structure	ModBase 3D Structure for Q15700
Applications Tested/Suitable for anti-PSD-93 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P)
Related Product Information for anti-PSD-93 antibody	Required for perception of chronic pain through NMDA receptor signaling. Regulates surface expression of NMDA receptors in dorsal horn neurons of the spinal cord. Interacts with the cytoplasmic tail of NMDA receptor subunits as well as inward rectifying potassium channels. Involved in regulation of synaptic stability at cholinergic synapses. Part of the postsynaptic protein scaffold of excitatory synapses (By similarity).
Other Notes	Small volumes of anti-PSD-93 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PSD-93 purchase	MBS9244969 is an antibody targeting PSD-93. Also known as PSD-93 Polyclonal Antibody. Reactive in Human. Host: Rabbit.



Wester Blot (WB) of anti-PSD-93 antibody
Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSD-93. It may not necessarily be applicable to this product.

NCBI GI #	218156338
NCBI GeneID	1740
NCBI Accession #	NP_001136171.1
UniProt Primary Accession #	Q15700
UniProt Secondary Accession #	Q59G57; Q5H9Q4; Q68CQ8; Q6ZTA8; B7WNY8; F8W9V6
UniProt Related Accession #	Q15700
GenBank Nucleotide #	NM_001142699.1
NCBI Official Full Name	disks large homolog 2 isoform 1
NCBI Official Synonym Full Names	discs, large homolog 2 (Drosophila)
NCBI Official Symbol	DLG2
NCBI Official Synonym Symbols	PSD93; PSD-93; PPP1R58; chapsyn-110
UniProt Protein Name	Disks large homolog 2
UniProt Synonym Protein Names	Channel-associated protein of synapse-110; Chapsyn-110; Postsynaptic density protein PSD-93
Protein Family	Disks large
UniProt Gene Name	DLG2
UniProt Synonym Gene Names	Chapsyn-110
UniProt Entry Name	DLG2_HUMAN
NCBI Protein Information	disks large homolog 2; discs, large homolog 2, chapsyn-110; postsynaptic density protein PSD-93; channel-associated protein of synapse-110; protein phosphatase 1, regulatory subunit 58; channel-associated protein of synapses, 110kDa
NCBI Summary for PSD-93	This gene encodes a member of the membrane-associated guanylate kinase (MAGUK) family. The encoded protein forms a heterodimer with a related family member that 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. Additional transcript variants have been described, but their full-length nature is not known. [provided by RefSeq, Dec 2008]

UniProt Comments for PSD-93	PSD-93: Required for perception of chronic pain through NMDA receptor signaling. Regulates surface expression of NMDA receptors in dorsal horn neurons of the spinal cord. Interacts with the cytoplasmic tail of NMDA receptor subunits as well as inward rectifying potassium channels. Involved in regulation of synaptic stability at cholinergic synapses. Part of the postsynaptic protein scaffold of excitatory synapses. Interacts through its PDZ domains with NETO1. Interacts with NOS1/nNOS through second PDZ domain. Interacts with KCNJ2/Kir2.1 (via C-terminus) through one of its PDZ domains. Interacts with FRMPD4 (via C-terminus). Interacts with LRFN1, LRFN2 and LRFN4. Interacts with FASLG. Belongs to the MAGUK family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 11q14.1 Cellular Component: postsynaptic membrane; voltage-gated potassium channel complex; membrane; basolateral plasma membrane; postsynaptic density; plasma membrane; ionotropic glutamate receptor complex; cell junction Molecular Function: ionotropic glutamate receptor binding; guanylate kinase activity; protein binding Biological Process: establishment and/or maintenance of epithelial cell polarity; synaptic transmission; nervous system development; sensory perception of pain; receptor clustering; nucleotide phosphorylation
Research Articles on PSD-93	**1.** This study showed that DLG2 is related the complex learning.
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