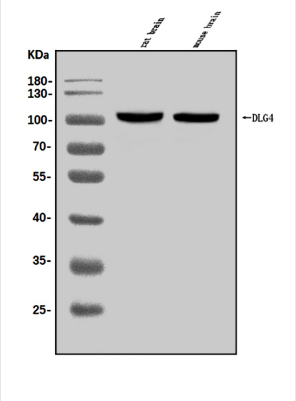
PSD95/DLG4 (DLG4) Antibody – Rabbit Polyclonal

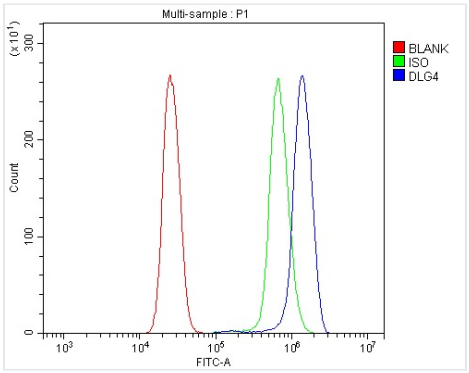
PRODUCT OVERVIEW

Product Name	PSD95/DLG4, Polyclonal Antibody
Full Product Name	Anti-PSD95/DLG4 Antibody
Product Gene Name	anti-DLG4 antibody
Product Synonym Names	DLG4; PSD95; Disks large homolog 4; Postsynaptic density protein 95; PSD-95; Synapse-associated protein 90; SAP-90; SAP90; discs large MAGUK scaffold protein 4
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Rabbit IgG polyclonal antibody for PSD95/DLG4 detection.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
Molecular Weight	724
Chromosome Location	Chromosome: 17; NC_000017.10 (7093209..7123369, complement). Location: 17p13.1
OMIM	602887
3D Structure	ModBase 3D Structure for P78352
Immunogen	E Coli-derived human PSD95/DLG4 recombinant protein (Position: D18-L711).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems||Lab recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (MBS176460) for Western blot.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-DLG4 antibody	Western Blot (WB), Flow Cytometry (FC/FACS/FCM), Direct ELISA (EIA)
Application Notes for anti-DLG4 antibody	WB: 0.25-0.5ug/ml|Mouse, Rat| FC/FACS/FCM: 1-3ug/1x106 cells|Human| Direct ELISA: 0.1-0.5ug/ml|Human|
Related Product Information for anti-DLG4 antibody	DLG4 discs large homolog 4, also known as PSD95 or SAP-90, is a protein that in humans is encoded by the DLG4 gene. It is a member of the membrane-associated guanylate kinase(MAGUK) family. This gene is mapped to 17p13. 1. DLG4 can heteromultimerize with another MAGUK protein, DLG2, and is recruited into 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. Overexpression of DLG4 in hippocampal neurons could drive maturation of glutamatergic synapses. DLG4 can orchestrate synaptic development and it has a role in synapse stabilization and plasticity. Ubiquitination of DLG4 through an MDM2-mediated pathway can regulate AMPA receptor surface expression during synaptic plasticity.

Product References and Citations for anti-DLG4 antibody	1. "Entrez Gene: DLG4 discs, large homolog 4 (Drosophila)". 2. Colledge, M., Snyder, E. M., Crozier, R. A., Soderling, J. A., Jin, Y., Langeberg, L. K., Lu, H., Bear, M. F., Scott, J. D. Ubiquitination regulates PSD-95 degradation and AMPA receptor surface expression. Neuron 40: 595-607, 2003. 3. El-Husseini, A. E. -D., Schnell, E., Chetkovich, D. M., Nicoll, R. A., Bredt, D. S. PSD-95 involvement in maturation of excitatory synapses. Science 290: 1364-1368, 2000.
Other Notes	Small volumes of anti-DLG4 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 DLG4 purchase	MBS1753493 is an antibody targeting DLG4. Also known as Anti-PSD95/DLG4 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-DLG4 antibody
Figure 1. Western blot analysis of PSD95/DLG4 using anti-PSD95/DLG4 antibody (MBS1753493).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30ug of sample under reducing conditions.Lane 1: rat brain tissue lysatesLane 2: mouse brain tissue lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-PSD95/DLG4 antigen affinity purified polyclonal antibody (Catalog # MBS1753493) at 0. 5 ?g/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # MBS176460) with Tanon 5200 system. A specific band was detected for PSD95/DLG4 at approximately 99KD. The expected band size for PSD95/DLG4 is at 99KD.



Flow Cytometry (FC/FACS) of anti-DLG4 antibody
Figure 2. Flow Cytometry analysis of U937 cells using anti-PSD95/DLG4 antibody (MBS1753493).Overlay histogram showing U937 cells stained with MBS1753493 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PSD95/DLG4 Antibody (MBS1753493, 1?g/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10?g/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1?g/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DLG4. It may not necessarily be applicable to this product.

NCBI GI #	192447426
NCBI GeneID	1742
NCBI Accession #	NP_001122299.1
UniProt Primary Accession #	P78352
UniProt Secondary Accession #	Q92941; Q9UKK8; B7Z1S1; G5E939
UniProt Related Accession #	P78352
GenBank Nucleotide #	NM_001128827.1
NCBI Official Full Name	disks large homolog 4 isoform 2
NCBI Official Synonym Full Names	discs, large homolog 4 (Drosophila)
NCBI Official Symbol	DLG4
NCBI Official Synonym Symbols	PSD95; SAP90; SAP-90

UniProt Protein Name	Disks large homolog 4
UniProt Synonym Protein Names	Postsynaptic density protein 95; PSD-95; Synapse-associated protein 90
Protein Family	Disks large
UniProt Gene Name	DLG4
UniProt Synonym Gene Names	PSD95; PSD-95; SAP-90; SAP90
UniProt Entry Name	DLG4_HUMAN
NCBI Protein Information	disks large homolog 4; discs large homolog 4; Tax interaction protein 15; synapse-associated protein 90; postsynaptic density protein 95; post-synaptic density protein 95
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