

Rabbit anti-Rat PSD-95 Polyclonal Antibody | anti-DLG4 antibody

Anti-PSD-95

CATALOG # AAA72802	HOST Rabbit	REACTIVITY Rat	APPLICATIONS Western Blot
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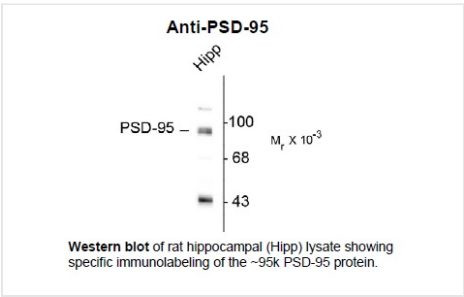
PRODUCT SYNONYMS

PSD-95; Polyclonal Antibody; Anti-PSD-95; anti-DLG4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Rat
Clonality	Polyclonal
Purity/Purification	Affinity Purified (Specific for ~95k PSD-95 protein.)
Form/Format	100 ul in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug per ml BSA and 50% glycerol. Adequate amount of material to conduct 10-mini Western Blots.
Sequence Length	724
Applicable Applications for anti-DLG4 antibody	WB (Western Blot)
Antigen	Peptide corresponding to amino acid residues from the N-terminal region of rat PSD-95, conjugated to keyhole limpet hemocyanin (KLH).
Immunogen Information	Synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH
Immunogen Species	Rat
Reactivity Assumed Based on 100% Sequence Homology	Bovine, human, mouse, non-human primates and zebra fish
Species Reactivity Note	The antibody has been directly tested for reactivity in Western blots in rat and mouse tissues. It is anticipated that the antibody will also work with bovine, human, non-human primates and zebra fish tissues based on the fact that these species have 100% homology with the amino acid sequence used as antigen.
Biological Significance	PSD-95 is a very prominent component of the postsynaptic densities of synapses. It contains three PDZ domains which play key roles in its interactions with other proteins in the synapse. It has been proposed that these PDZ domains organize glutamate receptors and their associated signaling proteins and determine the size and strength of synapses (Kim and Sheng, 2004). Recent work suggests that interaction of the NMDAR with PSD-95 via these PDZ domains can be regulated by phosphorylation (Chung et al., 2004).
Preparation and Storage	Store at -20 degree C; stable for at least one year.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-DLG4 antibody	Affinity purified rabbit polyclonal antibody
References	• Chung HJ, Huang YH, Lau LF, Huganir RL (2004) Regulation of the NMDA receptor complex and trafficking by activity-dependent phosphorylation of the NR2B subunit PDZ ligand. J Neurosci 24:10248-10259. • Kim EJ, Sheng M (2004) PDZ domain proteins of synapses. Nat Rev Neurosci 5:771-781.

NCBI AND UNIPROT INFORMATION

NCBI GI #	9665227
NCBI GeneID	29495
NCBI Accession #	NP_062567.1
NCBI GenBank Nucleotide #	NM_019621.1
UniProt Accession #	P31016; P97631
Molecular Weight	95
NCBI Official Full Name	disks large homolog 4
NCBI Official Synonym Full Names	discs, large homolog 4 (Drosophila)
NCBI Official Symbol	Dlg4
NCBI Official Synonym Symbols	Dlgh4; PSD95; Sap90
NCBI Protein Information	disks large homolog 4; PSD-95; SAP-90; discs large homolog 4; synapse-associated protein 90; postsynaptic density protein 95; synapse-associated protein SAP90
UniProt Protein Name	Disks large homolog 4
UniProt Gene Name	Dlg4
UniProt Synonym Gene Names	Dlgh4; Psd95; PSD-95; SAP-90; SAP90
UniProt Entry Name	DLG4_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.