

Polyclonal Antibody to DLG4 / PSD95 (N-term) - Aff - Purified

Alternate names:	DLGH4, Disks large homolog 4, PSD-95, Postsynaptic density protein 95, SAP-90, SAP90, Synapse-associated protein 90
Catalog No.:	TA309223
Quantity:	0.1 ml
Background:	PSD95 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).
Uniprot ID:	P31016
NCBI:	NP_062567.1
GeneID:	29495
Host / Isotype:	Rabbit / IgG
Immunogen:	Peptide corresponding to amino acid residues from the N-terminal region of Rat PSD-95, conjugated to keyhole limpet hemocyanin (KLH).
Format:	State: Liquid purified Ig fraction. Purification: Affinity Chromatography. Buffer System: 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% Glycerol.
Applications:	Western blot: 1/1,000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes the ~95k PSD95 protein.
Species Reactivity:	Tested: Rat and Mouse. Expected from sequence similarity: Human, Bovine, Zebrafish and non-Human Primates.
Storage:	Store the antibody undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Chung HJ, Huang YH, Lau LF, Haganir RL. Regulation of the NMDA receptor complex and trafficking by activity-dependent phosphorylation of the NR2B subunit PDZ ligand. J Neurosci. 2004 Nov 10;24(45):10248-59. PubMed PMID: 15537897. 2. Kim EJ, Sheng M (2004) PDZ domain proteins of synapses. Nat Rev Neurosci 5:771-781.

Pictures:

Western blot of rat hippocampal (Hipp) lysate showing specific immunolabeling of the ~95k PSD-95 protein.

