

AP26008PU-N**Polyclonal Antibody to DLG4 / PSD95 - Aff - Purified**

Alternate names:	DLGH4, Disks large homolog 4, PSD-95, Postsynaptic density protein 95, SAP-90, SAP90, Synapse-associated protein 90
Quantity:	0.1 mg
Concentration:	0.5 mg/ml
Background:	PSD95 is a member of the membrane-associated guanylate kinase (MAGUK) family. It heteromultimerizes with DLG2. With DLG2 it is recruited into the same 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.
Uniprot ID:	P78352
NCBI:	NP_001356.1
GeneID:	1742
Host:	Goat
Immunogen:	Peptide from the internal region (near C-Terminus) of the protein sequence according to NP_001356.1; NP_001122299.1. AA Sequence: C-EEQARKAFDRATK
Format:	State: Liquid purified Ig fraction Purification: Ammonium Sulphate Precipitation followed by antigen Affinity Chromatography using the immunizing peptide Buffer System: Tris saline, pH~7.3 containing 0.02% Sodium Azide as preservative and 0.5% BSA as stabilizer.
Applications:	Peptide ELISA: 1/64000 (Detection Limit). Western blot: 0.3-1 µg/ml. Approx 85kDa band observed in Mouse and Rat Brain lysates (calculated MW of 85.4kDa according to NP_001356.1). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects DLG4 / PSD95 (Internal). It is expected to recognize both reported isoforms (NP_001356.1, NP_001122299.1).
Species Reactivity:	Tested: Mouse, Rat. Expected from sequence similarity: Human, Dog, Cow.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Marks DR, Fadool DA. Post-synaptic density perturbs insulin-induced Kv1.3 channel modulation via a clustering mechanism involving the SH3 domain. J Neurochem. 2007 Nov;103(4):1608-27. Epub 2007 Sep 13. PubMed PMID: 17854350.

Pictures:

Anti-DLG4 antibody (0.3 μ g/ml) staining of Mouse Brain lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

