

PSD-95 Antibody

Affinity purified rabbit polyclonal antibody Catalog # AN1092

Specification

PSD-95 Antibody - Product Information

Application Primary Accession Reactivity Predicted Host Clonality Calculated MW WB <u>P31016</u> Rat Bovine, Human, Mouse, Monkey, Zebrafish Rabbit polyclonal 95 KDa

PSD-95 Antibody - Additional Information

Gene ID29495Gene NameDLG4Other NamesDisks large homolog 4, Postsynaptic density protein 95, PSD-95, Synapse-associated protein 90, SAP-90, SAP90, Dlg4, Dlgh4, Psd95

Target/Specificity

Synthetic peptide corresponding to amino acid residues from the N-terminal region conjugated to KLH.

Dilution WB~~ 1:1000

Format Prepared from rabbit serum by affinity purification via chromatography on an affinity column made with the N-terminal peptide used as antigen.

Antibody Specificity Specific for ~95k PSD-95 protein

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions PSD-95 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping Blue Ice

PSD-95 Antibody - Protocols



Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

PSD-95 Antibody - Images



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

PSD-95 Antibody - Background

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).

PSD-95 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.