

**PSD-95 Antibody**  
**Affinity purified rabbit polyclonal antibody**  
**Catalog # AN1092**

**Specification**

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**PSD-95 Antibody - Product Information**

|                   |                                         |
|-------------------|-----------------------------------------|
| Application       | WB                                      |
| Primary Accession | <a href="#">P31016</a>                  |
| Reactivity        | Rat                                     |
| Predicted         | Bovine, Human, Mouse, Monkey, Zebrafish |
| Host              | Rabbit                                  |
| Clonality         | polyclonal                              |
| Calculated MW     | 95 KDa                                  |

**PSD-95 Antibody - Additional Information**

|           |       |
|-----------|-------|
| Gene ID   | 29495 |
| Gene Name | DLG4  |

**Other Names**

Disks 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**

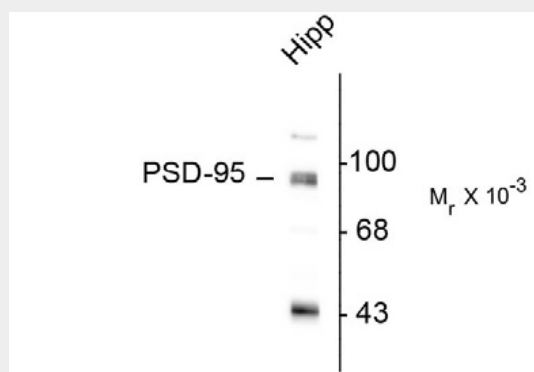
Blue Ice

**PSD-95 Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### PSD-95 Antibody - Images



Western blot of rat hippocampal (Hipp) lysate showing specific immunolabeling of the ~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.