

**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

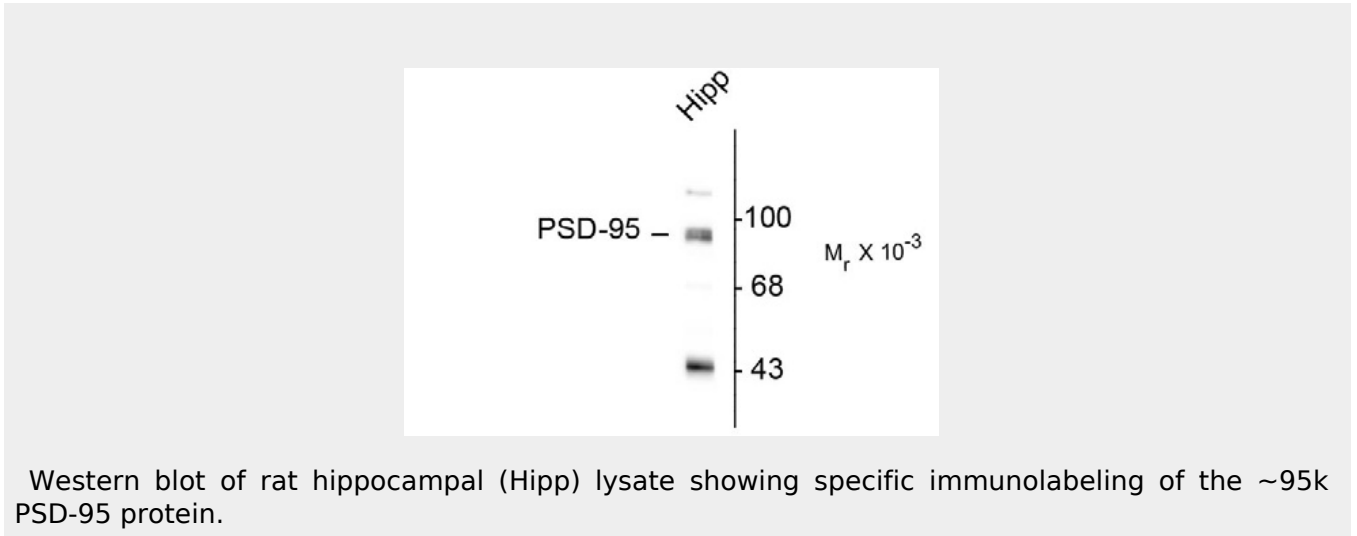
Blue Ice

### 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.