

## PRODUCT DATA SHEET

**Product Name:** ANTI-PSD-95 ANTIBODY

**Product Code:** P40026-100

**Pack Size:** 100 µL

**Description:** 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).

**Physical State:** Liquid; Buffer contents: 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per mL BSA and 50% glycerol

**Storage/Stability:** Stable at -20 °C for at least 1 year. For long term storage -20 °C is recommended

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

**Shipping Conditions:** Domestic: Blue Ice  
International: Blue Ice or Dry Ice

**Host Species:** Rabbit (Polyclonal)

**Mr (kDa):** 95

**Immunogen:** Peptide corresponding to amino acid residues from the N-terminal region of rat PSD-95, conjugated to keyhole limpet hemocyanin (KLH).

**Species Reactivity:** The antibody has been directly tested for reactivity in Western blots in rat and mouse tissues. It is anticipated that the antibody will also work with bovine, human, non-human primates and zebra fish tissues based on the fact that these species have 100% homology with the amino acid sequence used as antigen.

**Recommended Antibody Dilutions:**

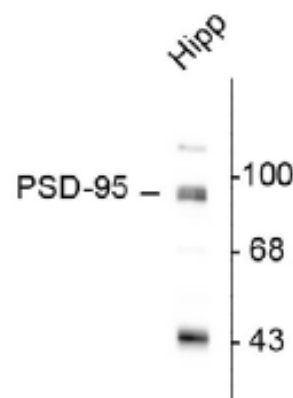
**WB: 1:1000**

**References:**

- 1) Chung HJ et al. (2004) *J Neurosci* 24:10248-10259.
- 2) Kim EJ et al. (2004) *Nat Rev Neurosci* 5:771-781.

**Western Blot**

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



**Application Key:** WB – Western Blot IF – Immunofluorescence IHC – Immunohistochemistry IP - Immunoprecipitation