

Anti-PSD95 Antibody

R1508-4



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IHC-P, FC
Molecular Wt:	Predicted band size: 80 kDa

Description: PSD-95 is a member of the membrane-associated guanylate kinase(MAGUK) family. With PSD-93 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.PSD-95 is the best studied member of the MAGUK-family of PDZ domain-containing proteins. Like all MAGUK-family proteins, its basic structure includes three PDZ domains, an SH3 domain, and a guanylate kinase-like domain (GK) connected by disordered linker regions. It is almost exclusively located in the post synaptic density of neurons, and is involved in anchoring synaptic proteins. Its direct and indirect binding partners include neuroligin, NMDA receptors, AMPA receptors, and potassium channels. It plays an important role in synaptic plasticity and the stabilization of synaptic changes during? long-term potentiation.

Immunogen: Synthetic peptide within N-terminal human PSD95.

Positive control: A172 cell lysate, mouse brain tissue lysate, SHG-44 cell lysate, N2A cell lysate, rat brain tissue, mouse brain tissue.

Subcellular location: Cell membrane, Cell projection, Cytoplasm, Membrane, Synapse.

Database links: SwissProt: P78352 Human

Recommended Dilutions:

WB	1:1000
IHC-P	1:50
FC	1:100

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃ or -80℃. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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Images

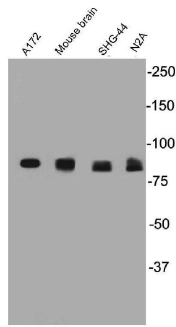


Fig1: Western blot analysis on different cell lysates using anti-PSD95 rabbit polyclonal antibodies.

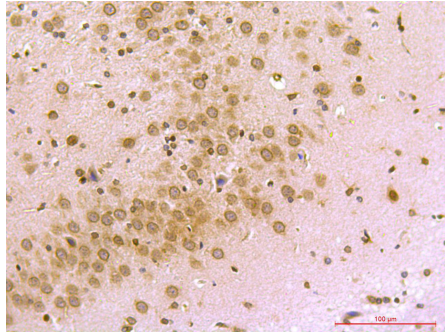


Fig2: Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti- PSD95 rabbit polyclonal antibody.

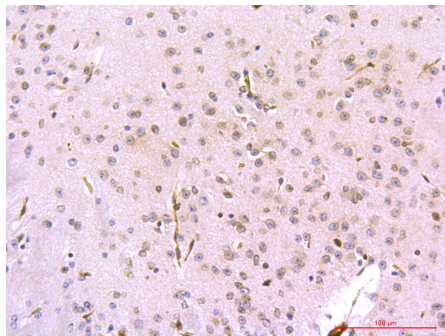


Fig3: Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti- PSD95 rabbit polyclonal antibody.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. "Human postsynaptic density-95 (PSD95): location of the gene (DLG4) and possible function in nonneural as well as in neural tissues." Stathakis D.G., Hoover K.B., You Z., Bryant P.J. *Genomics* 44:71-82(1997)
2. "Preso, a novel PSD-95-interacting FERM and PDZ domain protein that regulates dendritic spine morphogenesis." Lee H.W., Choi J., Shin H., Kim K., Yang J., Na M., Choi S.Y., Kang G.B., Eom S.H., Kim H., Kim E. J. *Neurosci.* 28:14546-14556(2008)

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