

PSD95 Monoclonal Antibody

ORDERING INFORMATION

Catalog No.	Clone No.	MAb Subtype	Size
56457	7E3-1B8	IgG1	100ug

Format: Protein G-purified antibody in PBS, pH 7.4, 50% glycerol, 0.09% sodium azide.

BACKGROUND

Postsynaptic Density Protein 95 (PSD95), also known as Synapse Associated Protein 90kDa, is a member of the membrane-associated guanylate kinase family of proteins. PSD95 is a scaffolding protein involved in the assembly and function of the postsynaptic density complex. This family of proteins consists of N-terminal variable segments followed by three amino-terminal PDZ domains, an upstream SH3 domain, and an inactive carboxy-terminal guanylate kinase domain. The first and second PDZ domains localize NMDA receptors and K⁺ channels to synapses, and the third binds to neuroligins, neuronal cell adhesion molecules. PSD95 also binds to neuronal nitric oxide synthase. PSD95 is implicated in experience-dependent plasticity and plays an indispensable role in learning. Mutations in PSD95 are associated with autism.

SPECIFICATION SUMMARY

Antigen: Recombinant rat PSD95

Host Species: Mouse

Gene ID: 29495

Accession No.: NP_062567.1, P31016

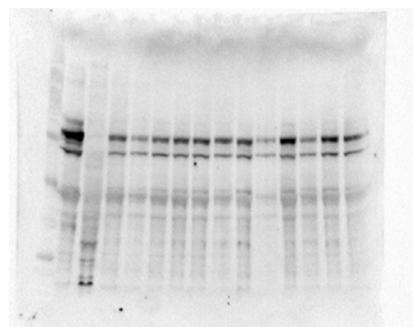
Specificity: This antibody recognizes mouse, rat, pig, and human PSD95.

APPLICATIONS

Immunoblotting: use at 1ug/ml. A band of ~100 kDa is detected.



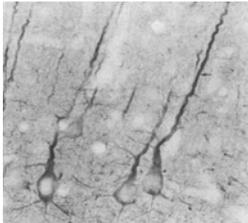
Detection of PSD95 in rat brain membrane with #56457 at 1ug/ml.



Detection of PSD95 in piglet hippocampus with #56457 at 1ug/ml. Lane 1: mw markers, Lane 2: mouse brain, Lane 3: piglet liver, Lanes 4-15: hippocampus of 12 different piglets. *Courtesy of S. Fleming, U. of Illinois.*

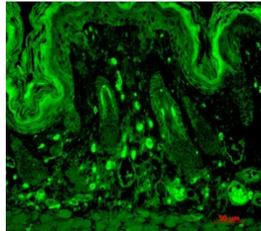
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Immunocytochemistry: use at 1-10ug/ml.

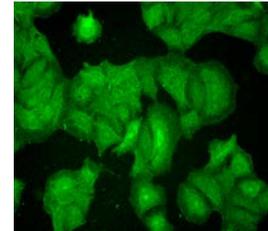


Detection of PSD95 in rat neocortex with #56457 at 1ug/ml.

Immunofluorescence: use at 10ug/ml.



Detection of PSD95 in mouse backskin with #56457 at 10ug/ml.



Detection of PSD95 in human HaCaT cells with #56457 at 10ug/ml.

These are recommended concentrations. Endusers should determine optimal concentrations for their application.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C.

For in vitro investigational use only. Not intended for therapeutic or diagnostic applications.