

Anti-PSD95 Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 56452 (clone 6G6-1C9) **Size:** 100ug in PBS, pH 7.4, purified by Protein G affinity chromatography.

BACKGROUND

Postsynaptic Density Protein 95 (PSD95), also known as Synapse Associated Protein 90kDa, is a member of the membraneassociated 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 Antibody Class: IgG2a Preservatives: 0.09% sodium azide Other additives: 50% glycerol

SPECIFICITY

This antibody recognizes mouse, rat, and bovine PSD95.

APPLICATIONS

Immunoblotting: use at 4ug/ml. A band of ~100 kDa is detected. Immunocytochemistry: use at 3-15ug/ml These are recommended concentrations. User should determine optimal concentrations for their application. Positive control: Rat brain tissue

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. Avoid repeated freezing and thawing.

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

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