

Anti-pan-Shank Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 56468 (clone S23b-49)
Size: 100ug in PBS, pH 7.4; 50% glycerol, 0.09% sodium azide. Purified by Protein G affinity chromatography.

BACKGROUND

Shank proteins are a family of scaffold proteins identified through their interaction with a variety of membrane and cytoplasmic proteins. Shank proteins at postsynaptic sites of excitatory synapses play roles in signal transmission into the postsynaptic neuron. Shank proteins are crucial in receptor tyrosine kinase signaling. Recent studies suggest that disruption of glutamate receptors at the Shank-postsynaptic platform could contribute to the destruction of postsynaptic density which underlies synaptic dysfunction and loss in Alzheimer's disease.

SPECIFICATION SUMMARY

Antigen: Fusion protein corresponding to aa 84-309 (SH3/PDZ domains) of rat Shank2 (accession no. Q9QX74). This sequence is 94% homologous with human and 97% homologous with mouse Shank2.

Host Species: Mouse

Antibody Class: IgG1

SPECIFICITY

This antibody recognizes human, mouse, and rat Shank 1, 2, and 3.

APPLICATIONS

Immunoblotting: use at 1-10ug/ml. A band of ~160kDa is detected.

Immunohistochemistry and

Immunocytochemistry: use at 0.1-1ug/ml

Immunofluorescence: use at 1-10ug/ml

These are recommended concentrations.

User should determine optimal concentrations for their application.

Positive control: Adult rat brain lysate.

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.