Anti-Shank2 Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 56466 (clone S23b-6)
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 cyto-plasmic 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. Shank2 is expressed in neurons of the developing retina and could play a role in neuronal differentiation of the developing retina. Recent studies suggest that disruption of glutamate receptors at the Shank-postsynaptic platform could contribute to the destruction of post-synaptic density which underlies synaptic dysfunction and loss in Alzheimer's disease.

SPECIFICATION SUMMARY

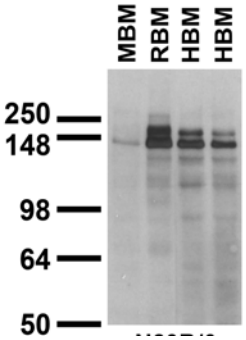
Antigen: Fusion protein corresponding to aa 84-309 (SH3/PDZ domains) of rat Shank2 (accession no. Q9QX74). This sequence is 94% homologous with human and 97% homologous with mouse Shank2.
Host Species: Mouse
Antibody Class: IgG1

SPECIFICITY

This antibody recognizes human, mouse (weak), and rat Shank2. It does not cross-react with Shank1 or Shank3.

APPLICATIONS

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



Brain membranes from whole rat (RBM) and mouse (MBM) brain and from human (HBM) cerebral cortex and hippocampus.

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.

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