Technical Data Sheet

Purified Mouse Anti- PSD-95

Product Information

Material Number: 610496
Alternate Name: PostSynaptic Density-95; SAP90
Size: 150 µg
Concentration: 250 µg/ml
Clone: 16/PSD-95
Immunogen: Rat PSD-95 aa. 353-504
Isotype: Mouse IgG1
Reactivity: QC Testing: Rat
Tested in Development: Mouse 95 kDa
Target MW: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

PostSynaptic Density (PSD) refers to a dense region of submembranous cytoskeleton found most prominently in postsynaptic membranes of the CNS. Possible functions for the PSD include regulation and aggregation of receptors, structural stabilization of the synaptic junction, and transduction of signals from membrane receptors. Some of the proteins associated with the PSD are fodrin, tubulin, calmodulin, CaM Kinase II, PSD-95, and PSD-93. PSD-95 (SAP90) is a protein that interacts with the NMDA receptor NMDAR2B, neuronal NOS (nNOS or bNOS), and other proteins. PSD-95 contains one SH3 domain in its carboxy-terminal domain, as well as three conserved repeat regions called GLGF or PDZ domains. nNOS, which is concentrated in synaptic junctions, also contains a PDZ domain. PSD-95 and nNOS interact via their respective PDZ domains, which may mediate the binding of nNOS to skeletal muscle syntrophin.

This antibody is routinely tested by western blot analysis. Other applications were tested in BD Biosciences Pharmingen during antibody development only or reported in the literature.


Immunofluorescence staining of PC12 cells (Rat neuroblastoma; ATCC CRL-1721).

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Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at -20° C.

Application Notes

<table>
<thead>
<tr>
<th>Application</th>
<th>Tested During Development</th>
<th>Not Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western blot</td>
<td>Routinely Tested</td>
<td></td>
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<tr>
<td>Immunofluorescence</td>
<td></td>
<td></td>
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<tr>
<td>Immunoprecipitation</td>
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<tr>
<td>Immunohistochemistry</td>
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**Recommended Assay Procedure:**

Western blot: Please refer to [http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml](http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml)

Suggested Companion Products

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<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>611463</td>
<td>Rat Cerebrum Lysate</td>
<td>500 µg</td>
<td>(none)</td>
</tr>
<tr>
<td>554002</td>
<td>HRP Goat Anti-Mouse Ig</td>
<td>1.0 ml</td>
<td>(none)</td>
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<tr>
<td>554001</td>
<td>FITC Goat Anti-Mouse Ig</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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**Product Notices**

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

**References**


Fagiolini M, Katagiri H, Miyamoto H. Separable features of visual cortical plasticity revealed by N-methyl-D-aspartate receptor 2A signaling. Proc Natl Acad Sci U S A. 2003; 100(5):2854-2859. (Biology: Western blot)
