Technical Data Sheet

Purified Mouse Anti-Synapsin Ila

Product Information

Material Number: 610666
Size: 50 µg
Concentration: 250 µg/ml
Clone: 1/Synapsin Ila
Immunogen: Rat Synapsin Ila aa. 451-586
Isotype: Mouse IgG1
Reactivity: QC Testing: Rat
Tested in Development: Human
Target MW: 74 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Synapsins are a group of four related proteins (synapsin Ia, Ib, Ila, and IIb) found exclusively in neuronal tissues. The four identified synapsins originate by alternative splicing of the mRNA from two different genes (synapsin I and II). Phosphorylation of synapsins occurs concomitantly with membrane excitation and neurotransmitter release into the synaptic cleft. Synapsins bind to the synaptic vesicles through their amino terminal domain, which also contains phosphorylation sites for the cAMP-dependent protein kinase. In vitro, synapsins bundle actin filaments. This indicates that synapsins may cross-link the vesicles with the actin filaments at the presynaptic terminal. By using hippocampal neurons and specific anti-sense oligonucleotides to block synapsin Ila expression, it was found that synapsin IIa was essential for the formation of synapses.

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

Preparation and Storage

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

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610666 Rev. 1
Application Notes

Application

<table>
<thead>
<tr>
<th>Application</th>
<th>Tested During Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western blot</td>
<td>Routinely Tested</td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td>Tested During Development</td>
</tr>
<tr>
<td>Immunohistochemistry-zinc-fixed</td>
<td>Tested During Development</td>
</tr>
<tr>
<td>Immunohistochemistry-formalin (antigen retrieval required)</td>
<td>Tested During Development</td>
</tr>
<tr>
<td>Immunofluorescence</td>
<td>Tested During Development</td>
</tr>
</tbody>
</table>

Recommended Assay Procedure:
Western blot: Please refer to 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>
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<tr>
<td>554002</td>
<td>HRP Goat Anti-Mouse Ig</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. 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.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References