Technical Data Sheet

Purified Mouse Anti-Dystrobrevin

Product Information

Material Number: 610766
Size: 50 µg
Concentration: 250 µg/ml
Clone: 23/Dystrobrevin
Immunogen: Mouse Dystrobrevin aa. 249-403
Isotype: Mouse IgG1
Reactivity: QC Testing: Rat
Tested in Development: Mouse, Rabbit
Target MW: 87 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Acetylcholine receptor clustering is considered an early event and a marker for synaptogenesis between a motor neuron and a muscle fiber. This process is mediated by the extracellular protein Agrin which binds to α and β Dystroglycan, previously discovered as Dystrobrevin-associated proteins. Dystrobrevin binds to the actin cytoskeleton by its N-terminal domain, thus providing the link between the actin cytoskeleton and receptor clustering. In Torpedo electric organ, Dystrobrevin is a prominent phosphotyrosine-containing protein. Murine Dystrobrevins comprise a family of four related proteins (1-4) with similar function, generated by alternative splicing. Dystrobrevin-1 is 688 amino acids and has an apparent mobility of 87kDa. Dystrobrevin-2 shares almost identical sequence with Dystrobrevin-1 in the first 500 amino acids and has an apparent mobility of 59kDa.

Preparation and Storage

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


Immunofluorescent staining of Rabbit Cerebrum.
Application Notes

Application

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western blot</td>
<td>Routinely Tested</td>
</tr>
<tr>
<td>Immunohistochemistry</td>
<td>Tested During Develop</td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td>Not Recommended</td>
</tr>
<tr>
<td>Immunofluorescence</td>
<td>Not Recommended</td>
</tr>
</tbody>
</table>

Recommended Assay Procedure:

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

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>611464</td>
<td>Rat Cerebellum 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>
</tr>
</tbody>
</table>

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