Purified Mouse Anti-Mouse Utrophin

**Product Information**

- **Material Number:** 610896
- **Size:** 50 µg
- **Concentration:** 250 µg/ml
- **Clone:** 55/Utrophin
- **Immunogen:** Mouse Utrophin aa. 768-874
- **Isotype:** Mouse IgG1
- **Reactivity:** QC Testing: Mouse
- **Target MW:** 400 kDa
- **Storage Buffer:** Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

**Description**

Utrophin is an autosomal homolog of dystrophin located on chromosome 6q24. Both encode large cytoskeletal proteins that are members of the spectrin superfamily. Spectrin family proteins are located at the cytoplasmic face and link the intracellular cytoskeleton to the extracellular matrix. Utrophin is nearly identical to dystrophin, specifically in the N-terminal actin binding domain and the C-terminus. Dystrophin is expressed primarily in the brain and muscle, while Utrophin is ubiquitously expressed. In skeletal muscle, Utrophin expression varies depending on the state of differentiation and innervation of muscle fibers. During development, it localizes in the sarcolemma. Following formation of synaptic contacts, Utrophin is found within the postsynaptic membrane domain of the neuromuscular junction. However, its expression is not limited to postsynaptic compartments. Although dystrophin is absent in patients with Duchenne muscular dystrophy (DMD) and mdx (dystrophin deficient) mice, Utrophin is upregulated. The regulation mechanisms underlying Utrophin expression in muscle have yet to be determined.

**Preparation and Storage**

Store undiluted at -20°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

**Application Notes**

<table>
<thead>
<tr>
<th>Application</th>
<th>Tested</th>
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<tbody>
<tr>
<td>Western blot</td>
<td>Routinely Tested</td>
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<tr>
<td>Immunofluorescence</td>
<td>Not Recommended</td>
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</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>554002</td>
<td>HRP Goat Anti-Mouse Ig</td>
<td>1.0 ml</td>
<td>(none)</td>
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</tbody>
</table>

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
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.

References