Technical Data Sheet

Purified Mouse Anti-Mouse Thrombospondin-2

Product Information

Material Number: 611150
Alternate Name: TSP-2
Size: 50 µg
Concentration: 250 µg/ml
Clone: 4/Thrombospondin-2
Immunogen: Human Thrombospondin-2 aa. 173-295
Isotype: Mouse IgG1
Reactivity: QC Testing: Mouse
Target MW: 200 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Cell adhesion interactions involve large extracellular glycoproteins such as fibronectin, laminins, and thrombospondins. The thrombospondins (TSPs), a small family of secreted glycoproteins, can be separated into two subfamilies based on structural similarity. TSP-1 and TSP-2 are homotrimers of monomeric 145 kDa chains, while TSP-3,4 and 5 are homopentamers of lower MW chains. TSP-1 and TSP-2 interact with several of the same cell surface receptors and have been termed matricellular proteins. However, the functional roles of TSP-1 and TSP-2 are poorly understood. Study of TSP-2 deficient mice has shed some light on the functional role of this protein. Although these mice appear normal, they in fact exhibit a wide variety of irregularities. These include abnormal collagen fiber development which results in fragile skin and highly flexible tendons and ligaments. They also exhibit increased cortical thickness in long bones and abnormal bleeding time. These results, together with the developmental expression pattern of TSP-2, suggest that it functions as a modulator of the cell surface properties of mesenchymal cells which, in turn, affects cell functions such as adhesion and migration.

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.

Application Notes

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<tr>
<th>Application</th>
<th>Tested During Development</th>
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<tbody>
<tr>
<td>Western blot</td>
<td>Routinely Tested</td>
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<tr>
<td>Immunofluorescence</td>
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Recommended Assay Procedure:

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

Suggested Companion Products

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<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<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. 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

