Technical Data Sheet

Purified Mouse Anti-Zyxin

Product Information
Material Number: 610521
Size: 50 µg
Concentration: 250 µg/ml
Clone: 21/Zyxin
Immunogen: Chicken Zyxin aa. 277-447
Isotype: Mouse IgG1
Reactivity: QC Testing: Chicken
Lack of Reactivity Confirmed in Development: Human, Dog, Rat, Mouse, Frog
83 kDa
Target MW:
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description
Zyxin is an 82kDa zinc-binding metalloprotein found in focal adhesion plaques. It contains a proline-rich N-terminal domain and a C-terminal domain containing three LIM domains. LIM domains are characterized as zinc-binding motifs involved in gene expression protein-protein interactions. Zyxin interacts with several focal adhesion proteins including α-actinin, Vav, and another LIM domain-containing protein, cCRP. Zyxin associates selectively with an SH3 domain of p95 Vav through its proline-rich N-terminal domain. The focal adhesion protein VASP has also been shown to interact with the 83kDa human homologue of zyxin, p83. Other LIM-containing proteins function as transcription factors or as growth and differentiation factors in embryogenesis. Zyxin and its homologues appear to be involved in the transduction of extracellular signals originating at focal adhesion plaques.

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>Notes</th>
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<tbody>
<tr>
<td>Western blot</td>
<td>Routinely Tested</td>
</tr>
<tr>
<td>Immunofluorescence</td>
<td>Tested During Development</td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td>Not Recommended</td>
</tr>
<tr>
<td>Immunohistochemistry</td>
<td>Not Recommended</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**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>611478</td>
<td>SL-29 Cell 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. 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**


