Purified Mouse Anti-Caveolin 3

Product Information

Material Number: 610421
Size: 150 µg
Concentration: 250 µg/ml
Clone: 26/Caveolin 3
Immunogen: Rat Caveolin 3 aa. 3-24
Isotype: Mouse IgG1
Reactivity: QC Testing: Rat
Tested in Development: Mouse, Rabbit
Target MW: 18 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Identified as a tyrosine phosphorylated protein in Rous sarcoma virus-transformed chick embryo fibroblasts (CEF), caveolin is now known to be ubiquitously expressed. Caveolin (also known as VIP21) localizes to non-clathrin membrane invaginations (caveolae) on the inner surface of the plasma membrane. This transmembrane protein plays a structural role in these specializations. Caveolin is also present at the trans-Golgi network (TGN), and similar quantities are found in apically and basolaterally destined transport vesicles. Caveolin is part of a complex containing glycosylphosphatidylinositol (GPI)-linked molecules and cytoplasmic signaling proteins. Caveolin is a transmembrane adaptor molecule that can simultaneously recognize GPI-linked proteins and interact with downstream cytoplasmic signaling molecules, such as c-yes, Annexin II, and hetero-trimeric G proteins. Caveolin 3 has been identified as a distinct isoform which is expressed only in smooth, skeletal, and cardiac muscle.

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

<table>
<thead>
<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>Immunohistochemistry</td>
<td></td>
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<tr>
<td>Immunofluorescence</td>
<td>Not Recommended</td>
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<tr>
<td>Immunoprecipitation</td>
<td>Not Recommended</td>
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</tbody>
</table>

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 Igs</td>
<td>1.0 ml</td>
<td>(none)</td>
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<tr>
<td>554001</td>
<td>FITC Goat Anti-Mouse Igs (Multiple Adsorption)</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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<tr>
<td>611469</td>
<td>Rat Muscle Lysate</td>
<td>500 µg</td>
<td>(none)</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


