Technical Data Sheet

Purified Mouse Anti-Flotillin-1

Product Information
Material Number: 610820
Size: 50 µg
Concentration: 250 µg/ml
Clone: 18/Flotillin-1
Immunogen: Mouse Flotillin aa. 312-428
Isotype: Mouse IgG1
Reactivity: QC Testing: Rat
Tested in Development: Chicken, Human, Mouse
Target MW: 48 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description
Caveolae are specialized membrane invaginations of 50-100 nm present in all cells, but abundant in endothelium, muscle cells, and adipocytes. These plasma membrane microdomains function in transcytosis of macromolecules, and are the sites of potocytosis, where small molecules are concentrated and transferred inside the cells by glycosylphosphatidylinositol (GPI)-linked receptors. Caveolin, a 22kDa protein and a well known marker for these plasma membrane microdomains, plays a structural role in these specializations. Flotillin-1 was isolated from the Triton X-100 insoluble buoyant fraction, characteristic of caveolae. Although the mRNA expression of both Flotillin-1 and Caveolin is very similar, Caveolin is undetectable in brain, while Flotillin-1 is very abundant. Flotillin-1 is a close homolog of the Epidermal Surface Antigen (ESA/Flotillin-2), which also colocalizes in the caveolae. Thus, Flotillin-1 and its relative ESA/Flotillin-2 are now incorporated into the expanding list of proteins co-localized at the caveolae which includes PKCa, Ras, Rap Src-like kinases, Gαβγ, and GPI-linked receptors.

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>Routine Tested</th>
<th>Tested During Development</th>
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<tbody>
<tr>
<td>Western blot</td>
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<td>Immunofluorescence</td>
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Western blot analysis of Flotillin-1 on rat brain lysate.
Lane 1: 1:250, Lane 2: 1:500, Lane 3: 1:1000 dilution of Flotillin-1.

BD Biosciences

For country-specific contact information, visit bd.biosciences.com/how_to_order/

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### Suggested Companion Products

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<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>611463</td>
<td>Rat Cerebrum Lysate</td>
<td>500 µg</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


