Technical Data Sheet

Purified Mouse Anti-Rho

Product Information
Material Number: 610991
Size: 150 µg
Concentration: 250 µg/ml
Clone: 55/Rho
Immunogen: Human Rho aa. 1-155
Isotype: Mouse IgG1
Reactivity: QC Testing: Human Tested in Development: Rat, Mouse
Target MW: 21 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description
Members of the Ras superfamily of GTPases are distantly related to the heterotrimeric G proteins and shuttle between inactive and active GTP-bound forms. Interconversion between these forms is controlled by guanine nucleotide exchange factors (GEFs) and GTPase-activating proteins (GAPs). The subfamilies of the Ras-like proteins share 30-50% homology, each member participates in a particular set of cellular functions. The Rho (Ras homolog) proteins (A, B, & C) are highly homologous and contain the consensus amino acid sequences necessary for GDP/GTP-binding and GTPase activity. Rho proteins contain a C-terminal sequence, CAAL, whose post-translational modification regulates Rho activation and function. Rho proteins modulate the in vitro activity of PI-3-kinase, PI-4,5-kinase, and phospholipase D. Rho is a molecular switch that regulates cell morphology and motility in response to extracellular signals. Due to sequence homology among various small GTPase family members, potential cross-reactivity could be observed with this antibody. Based on recent testing in native ELISA with recombinant proteins to CDC42 and Rac1, we have concluded that this antibody recognizes CDC42 and Rac1. BD Pharmingen has not performed such cross-reactivity testing on other family members.

Preparation and Storage
Store undiluted at -20° C.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application
Western blot Routinely Tested
Immunofluorescence Tested During Development

BD Biosciences
bdBiosciences.com

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Canada 888.259.0187
Europe 32.53.720.550
Japan 0120.855.990
Asia Pacific 65.6861.0633
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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>554002</td>
<td>HRP Goat Anti-Mouse Ig</td>
<td>1.0 ml</td>
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<tr>
<td>611451</td>
<td>Jurkat Cell Lysate</td>
<td>500 µg</td>
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### Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. 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