Purified Mouse Anti-Ras-GAP

Product Information

Material Number: 610040

Size: 50 µg

Concentration: 250 µg/ml

Clone: 13/RAS-GAP

Immunogen: Human Ras-GAP aa.381-390

Isotype: Mouse IgG1

Reactivity: QC Testing: Dog

Target MW: 120 kDa

Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Ras-GAP, a protein of approximately 120kDa, is thought to serve as a down-regulator of p21ras by stimulating its otherwise weak intrinsic GTPase activity. Both growth factor receptor and oncogene-encoded tyrosine kinases require functional membrane-associated Ras proteins in order to affect mitogenesis. The manner in which p21ras acts as a signal transducer is still a matter of speculation. The Ras-GTPase stimulating activity has been found to reside in the carboxy-terminal region of Ras-GAP, while the amino-terminal region contains two SH2 domains and an intervening SH3 domain. In cells stimulated with EGF or transformed by pp60 [v-src], Ras-GAP becomes phosphorylated on both tyrosine and serine residues and forms distinct complexes with two phosphorylated proteins of 62 and 190kDa. The tyrosine phosphorylation of Ras-GAP may modulate its subcellular localization and activity as a negative regulator of p21ras.

This antibody 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.


Immunofluorescence staining of Hs 766T cells (Human pancreatic carcinoma; ATCC HTB-134).
Application Notes

Application

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<tr>
<th>Application</th>
<th>Tested During Development</th>
<th>Not Recommended</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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<td>Immunohistochemistry</td>
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<td>Immunoprecipitation</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>
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</thead>
<tbody>
<tr>
<td>611635</td>
<td>MDCK Cell Lysate</td>
<td>500 µg</td>
<td>(none)</td>
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<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</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. 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


