Technical Data Sheet

Purified Mouse Anti-Ras

Product Information
Material Number: 610001
Size: 50 µg
Concentration: 250 µg/ml
Clone: 18/Ras
Immunogen: Human Ras (Ha-ras) aa. 1-190
Isotype: Mouse IgG1
Reactivity: QC Testing: Human
Reacted in Development: Chicken, Dog, Mouse, Rat
Target MW: 21 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description
Ras and related proteins of the Ras superfamily play critical roles in the control of normal and neoplastic proliferation. In mammalian cells there are four true Ras proteins (encoded by Ha-ras, N-ras, Ki-rasA, and Ki-rasB) which, upon mutational activation, can function as independent oncoproteins. These proteins relay signals from tyrosine kinases at the plasma membrane which subsequently lead to the nucleus via a network of serine/threonine kinases. The p21ras protein is active in its GTP-bound state. This form is slowly converted to the GDP-bound form by the intrinsic GTPase activity of Ras. This activity is greatly enhanced by GTPase-activating proteins (GAPs) which subsequently lead to removal of the GTP molecule and replacement with GDP. Maintenance of Ras in the GTP form can lead to transformation. One class of Ras mutations, commonly found in human tumors, results in an accumulation of Ras-GTP. The mutant Ras can bind GAP, but GAP bound in this manner seems unable to affect the Ras-GTPase activity.

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.

BD Biosciences


Immunofluorescent staining of Hs 766T cells.

For country-specific contact information, visit bdbiosciences.com/how_to_order/
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Application Notes

**Application**

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<thead>
<tr>
<th>Application</th>
<th>Tested During Development</th>
<th>Routinely Tested</th>
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<tbody>
<tr>
<td>Western blot</td>
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<td>Immunofluorescence</td>
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<td>Immunohistochemistry</td>
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<td>Immunoprecipitation</td>
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**Suggested Companion Products**

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<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>611447</td>
<td>A431 Cell Lysate</td>
<td>500 µg</td>
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<tr>
<td>554002</td>
<td>HRP Goat Anti-Mouse Igs</td>
<td>1.0 ml</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. 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**


