Purified Mouse Anti-MEK2

Product Information
Material Number: 610236
Alternate Name: MAP Kinase Kinase 2; ERK Kinase
Size: 150 µg
Concentration: 250 µg/ml
Clone: 96/MEK2
Immunogen: Rat MEK2 aa. 1-110
Isotype: Mouse IgG2a
Reactivity: QC Testing: Mouse
Tested in Development: Chicken, Dog, Frog, Human, Rat
46 kDa
Target MW: 46 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description
MEK2 (MAP Kinase Kinase 2 or ERK Kinase), a 46 kDa protein kinase, phosphorylates MAP kinases (ERKs) at tyrosine and threonine residues. This phosphorylation results in activation of the MAP kinases. MEK2 is seven amino acids larger and shares 81% identity with MEK1. In cultured cells, MEK2 is activated by serum. In vitro, v-Raf phosphorylates and activates MEK2. It is thought that all of these activated protein kinases are downstream of the Ras signal transduction pathway and represent an integral part of the Ras mitogenic signal.

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

Application

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<table>
<thead>
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<tbody>
<tr>
<td>Western blot</td>
<td>Routinely Tested</td>
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<tr>
<td>Immunofluorescence</td>
<td>Tested During Development</td>
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<tr>
<td>Immunoprecipitation</td>
<td>Tested During Development</td>
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<tr>
<td>Immunohistochemistry-formalin (antigen retrieval required)</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</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


Tworkowski KA, Salghetti SE, Tansey WP. Stable and unstable pools of Myc protein exist in human cells. Oncogene. 2002; 21(55):8515-8520.(Biology: Western blot)