Technical Data Sheet

Purified Mouse Anti-Human JNK1 with Control

Product Information

Material Number: 551196
Size: 50 µg
Reactivity: QC Testing: Human
Component: 51-1570GR
Description: Purified Mouse Anti-Human JNK1
Size: 50 µg (1 ea)
Clone Name: G151-333
Immunogen: Human JNK1 fusion protein
Isotype: Mouse IgG1
Target MW: 46 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Component: 51-16516N
Description: HeLa Control Lysate
Size: 50 µg (1 ea)
Concentration: 1.0 mg/ml
Storage Buffer: SDS-PAGE buffer (62mM Tris pH 6.8, 2% SDS, 0.9% b-mercaptoethanol, 0.003% bromophenol blue, 5% glycerol)

Description

C-Jun NH2-terminal kinase (JNK1) binds to the c-Jun terminal transactivation domain and phosphorylates it on Ser-63 and Ser-73. Phosphorylation enhances the transcriptional activity of c-Jun. The Ser-Pro-acidic sequence targeted by JNK1 kinase activity establishes it as a proline-directed kinase related to the MAP kinases and cyclin dependent kinases. JNK1 migrates with an apparent molecular weight of 46 kDa by SDS-PAGE. A related protein of 55 kDa has similar kinase activity. JNK1 may act as a tumor promoter in response to UV-irradiation since its activity is potently stimulated by such radiation. This has relevance to the observations that c-Jun transcriptional activity is upregulated by UV irradiation. The G151-333 antibody recognizes both the 46 kDa JNK1 and a related ~55 kDa protein (which may be a modified form of JNK1). It does not cross-react with JNK2. G151-333 precipitates an active kinase. A bacterially expressed fusion protein of human JNK1 was used as immunogen.

Preparation and Storage

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

Western blot analysis of JNK1. Lysate from HeLa cells was probed with anti-JNK1 (clone G151-333, Component No. 51-1570GR) at concentrations of 1.0 (lane 1), 0.5 (lane 2), and 0.25 µg/ml (lane 3). The antibody recognizes JNK1 as a 46 kDa band as well as a putative modified form of JNK1 at ~55 kDa.
Application Notes

Recommended Assay Procedure:
Applications include western blot analysis (0.25-1.0 µg/ml). Other applications not routinely tested at BD Biosciences Pharmingen include immunoprecipitation (1-2 µg/1x10^6 cells). HeLa control lysate [50 µg (1 µg/µl)] is provided as a western blot positive control (Component No. 51-16516N; store lysate at -20°C). Additional control lysate (Cat. No. 611449) is sold separately.

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>611449</td>
<td>HeLa Cell Lysate</td>
<td>500 µg</td>
<td>(none)</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


