Technical Data Sheet

Purified Mouse Anti-JBP1/Skb1Hs

Product Information

Material Number: 611538
Size: 50 µg
Concentration: 250 µg/ml
Clone: 32/JPB1
Immunogen: Human Skb1Hs aa. 423-624
Isotype: Mouse IgG1
Reactivity: QC Testing: Human
Tested in Development: Dog, Rat, Mouse
Target MW: 72 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

p21[Cdc42/Rac]-activated kinases (PAKs) bind and are activated by the small GTPases, Cdc42 and Rac. In yeast, the interaction of the PAK, Shk1, with Skb1 (Shk1 kinase binding protein 1) is important in the regulation of cell morphology and mitosis. Skb1Hs, the human homolog of Skb1, restores growth rates in yeast cells deficient for Skb1. Skb1Hs has also been identified as a 72 kDa pICln-binding protein (IBP72). pICln is thought to be a cytosolic regulator of a swelling-induced chloride channel and interactions with Skb1Hs suggest a link with PAKs, which are involved in cytoskeletal rearrangement. An additional line of study has identified Skb1Hs as a Jak binding protein (JBP1) via its interactions with Jak1-3 and Tyk2. This study also identified Skb1Hs as a methyltransferase that interacts with multiple proteins which possibly serve as physiological targets. Skb1Hs is expressed in a wide range of tissues and is thought to form homodimeric or multimeric complexes. Thus, Skb1Hs (IBP72, JBP1) is a multifunctional protein that may participate in such diverse processes as transcriptional and translational regulation, cytoskeletal rearrangement, and any of a number of signaling pathways.

Western blot analysis of JBP1/SKB1HS on SW13 lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 of JBP1/SKB1HS.

Preparation and Storage

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

Application Notes

<table>
<thead>
<tr>
<th>Application</th>
<th>Western blot</th>
<th>Immunofluorescence</th>
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<tbody>
<tr>
<td></td>
<td>Routinely Tested</td>
<td>Tested During Development</td>
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</tbody>
</table>

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Suggested Companion Products

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<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>611475</td>
<td>SW-13 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