Purified Mouse Anti-JAK1

Material Number: 610232
Size: 150 µg
Concentration: 250 µg/ml
Clone: 73/JAK1
Immunogen: Human JAK1 aa. 551-766
Isotype: Mouse IgG1, κ
Reactivity: Tested in Development: Dog, Rat, Mouse, Chicken, Frog
Target MW: 130 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description
The JAK family of receptor-associated protein kinases is directly involved in interferon (IFN) response pathways. The JAK family contains at least three members: JAK1, JAK2, and Tyk2. Each protein is approximately 130 kDa and contains a C-terminal tyrosine kinase domain, an adjacent kinase or kinase-related domain, and five other domains that are highly conserved among family members. In several human and murine cell lines, JAK1 is rapidly tyrosine phosphorylated in response to IFN-α and IFN-γ. JAK1 is required for the phosphorylation of the transcription factor Stat1 (p91), in response to IFNs-α or IFN-γ. JAK1 is also necessary for the efficient phosphorylation of Stat2 (p113) in response to IFN-α and for the phosphorylation of Tyk2 or JAK2 in response to IFNs-α or IFN-γ, respectively.

Preparation and Storage
Store undiluted at -20°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

<table>
<thead>
<tr>
<th>Application</th>
<th>Status</th>
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<tbody>
<tr>
<td>Western blot</td>
<td>Routinely Tested</td>
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<tr>
<td>Immunoprecipitation</td>
<td>Tested During Development</td>
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<tr>
<td>Immunofluorescence</td>
<td>Tested During Development</td>
</tr>
<tr>
<td>Immunohistochemistry</td>
<td>Not Recommended</td>
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Suggested Companion Products

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<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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</thead>
<tbody>
<tr>
<td>611451</td>
<td>Jurkat Cell Lysate</td>
<td>500 µg</td>
<td>(none)</td>
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<tr>
<td>554002</td>
<td>HRP Goat Anti-Mouse Ig</td>
<td>1.0 ml</td>
<td>(none)</td>
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<tr>
<td>554001</td>
<td>FITC Goat Anti-Mouse Ig</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.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References
Nicholson SE, Oates AC, Ziemiecki A, Wilks AF, Layton JE. Tyrosine kinase JAK1 is associated with the granulocyte-colony-stimulating factor receptor and both become tyrosine-phosphorylated after receptor activation. Proc Natl Acad Sci U S A. 1994; 91(8):2985-2988. (Biology)