Technical Data Sheet

Purified NA/LE Hamster Anti-Mouse IL-1β

Product Information

Material Number: 557539
Size: 0.25 mg
Concentration: 1.0 mg/ml
Clone: B122
Immunogen: Mouse IL-1β Protein
Isotype: Armenian Hamster IgG, λ1
Reactivity: Mouse
Storage Buffer: No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered. Endotoxin level is ≤0.01 EU/µg (≤0.001 ng/µg) of protein as determined by the LAL assay.

Description

The B122 antibody recognizes the precursor and mature secreted forms of the mouse IL-1β protein. B122 neutralizes the biological activity of mouse IL-1β, but not the biological activities of mouse IL-1α nor human IL-1β. B122 does not recognize mouse IL-2, IL-4, IL-6, IL-10, TNF or IFN-γ. This antibody also recognizes rat IL-1β. The immunogen used to generate the B122 hybridoma was a purified, mature form of the mouse IL-1β protein.

Preparation and Storage

Store undiluted at 4°C.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
This preparation contains no preservatives, thus it should be handled under aseptic conditions.

Application Notes

Application

<table>
<thead>
<tr>
<th>Application</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ELISA</td>
<td>Routinely Tested</td>
</tr>
<tr>
<td>Neutralization</td>
<td>Tested During Development</td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td>Reported</td>
</tr>
</tbody>
</table>

Neutralization Activity:

This antibody has been reported to be useful for the neutralization application. Neutralization of mouse IL-1β bioactivity may be measured with a proliferation assay using 2 ng/mL recombinant mouse IL-1β (Cat. No. 554577) to stimulate TF-1 cells at 1x10^5 cells/mL as indicator cells (i.e. preincubation of the antibody with recombinant mouse IL-1β for 60 minutes). 50% Neutralization (ND50) at 25 – 100 ng/mL ≥ 95% Neutralization at 125 - 500 ng/mL

Recommended Assay Procedure:

**ELISA:** Purified Hamster Anti-Mouse IL-1β (Cat. No. 550605) has been reported to be useful as a capture antibody for sandwich ELISA measuring mouse IL-1β protein levels. For measuring mouse IL-1β in complex biological samples, such as serum or plasma, investigators are highly encouraged to use the BD OptEIA™ Mouse IL-1β ELISA Set (Cat. No 559603).

**Immunoprecipitation:** Purified Hamster Anti-Mouse IL-1β (clone B122) has been reported to be useful for the immunoprecipitation of both natural and recombinant forms of mouse IL-1β protein. Please note that this antibody is not routinely tested for this application.

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>554709</td>
<td>Purified NA/LE Hamster IgG1, λ1 Isotype Control</td>
<td>0.5 mg</td>
<td>G235-2356</td>
</tr>
<tr>
<td>554577</td>
<td>Recombinant Mouse IL-1β</td>
<td>5 µg</td>
<td>(none)</td>
</tr>
<tr>
<td>559603</td>
<td>Mouse IL-1β ELISA Set</td>
<td>20 plates</td>
<td>(none)</td>
</tr>
</tbody>
</table>

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Although hamster immunoglobulin isotypes have not been well defined, BD Biosciences Pharmingen has grouped Armenian and Syrian hamster IgG monoclonal antibodies according to their reactivity with a panel of mouse anti-hamster IgG mAbs. A table of the hamster IgG groups, Reactivity of Mouse Anti-Hamster Ig mAbs, may be viewed at http://www.bdbiosciences.com/documents/hamster_chart_11x17.pdf.

BD Biosciences

For country contact information, visit bdbiosciences.com/contact
Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchasing does not include or convey any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.

557539 Rev. 3 Page 1 of 2
References


Kitamura T, Takaku F, Miyajima A. IL-1 up-regulates the expression of cytokine receptors on a factor-dependent human hemopoietic cell line, TF-1.  Int Immunol. 1991; 3(6):571-577. (Biology)

