Purified Hamster Anti-Mouse IL-1β

Product Information

Material Number: 550605
Size: 0.5 mg
Concentration: 0.5 mg/ml
Clone: B122
Immunogen: Mouse IL-1β
Isotype: Armenian Hamster IgG1, λ1
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

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

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

Store undiluted at 4°C.

Application Notes

Neutralization Activity:
The NA/LE™ format of the B122 antibody (Cat. No. 557539) is recommended for the in vitro neutralization of mouse IL-1β bioactivity. This antibody preparation is tested in bioassay to verify neutralization activity and LAL assay to assess endotoxin level.

Recommended Assay Procedure:

**ELISA Capture:** The purified B122 antibody (Cat. No. 550605) is useful as a capture antibody for a sandwich ELISA that measures mouse IL-1β protein levels. Purified B122 antibody can be paired with a biotinylated anti-mouse IL-1β as a detecting antibody, with recombinant mouse IL-1β (Cat. No. 554577) as the standard. Purified B122 antibody should be titrated 1–4 µg/ml to determine its optimal concentration for ELISA capture. To obtain linear standard curves, doubling dilutions of mouse IL-1β ranging from ~2000 pg/ml to 30 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology please visit the protocols sections or the chapter on ELISA in the Immune Function Handbook, both of which are posted on our web site, www.bdbiosciences.com.

**Note:** For assay of mouse IL-1β in serum or plasma samples, the BD OptEIA™ Mouse IL-1β ELISA Set, Cat. No. 559603 is recommended.

**IP/WB:** The B122 antibody has been reported to be useful for immunoprecipitation and Western blotting studies. Please note that this application is not routinely tested at BD Biosciences Pharmingen.

Suggested Companion Products

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<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tr>
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<td>559603</td>
<td>Mouse IL-1β ELISA Set</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to wwwbdbiosciences.com/pharmingen/protocols for technical protocols.
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.

References


