Technical Data Sheet
Purified Hamster Anti-Mouse IL-1α

Product Information
Material Number: 550604
Size: 0.5 mg
Concentration: 0.5 mg/ml
Clone: ALF-161
Immunogen: Mouse IL-1α recombinant protein
Isotype: Armenian Hamster IgG1, λ
Reactivity: QC Testing: Mouse
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description
This antibody recognizes the precursor, secreted and membrane-associated forms of mouse interleukin-1α (IL-1α) protein. No cross-reactivity was detected with mouse IL-1β. This antibody does not recognize human IL-1α or IL-1β. The cross-reactivity of this antibody with IL-1α from other species has not been tested. The immunogen used to generate this ALF-161 hybridoma was purified, recombinant mouse IL-1α protein. This is a neutralizing antibody.

Preparation and Storage
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4°C.

Application Notes
Application
| ELISA Capture | Routinely Tested |
| Intracellular staining (flow cytometry) | Tested During Development |
| Neutralization | Tested During Development |
| Western blot | Reported |

Recommended Assay Procedure:
ELISA Capture: The purified ALF-161 antibody (Cat. No. 550604) is useful as a capture antibody for a sandwich ELISA for measuring mouse IL-1α protein levels. Purified ALF-161 antibody can be paired with the biotinylated polyclonal IgG fraction of rabbit anti-mouse IL-1α (Cat. No. 550606) as the detecting antibody, with recombinant mouse IL-1α as the standard. Purified ALF-161 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-1α ranging from ~1000 to 15 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit the protocols section or chapter on ELISA in the Immune Function Handbook, both of which are posted on our web site, wwwbdbiosciences.com.

Note: This ELISA antibody pair shows no crossreactivity with other purified recombinant cytokines or receptors that were tested including: Mouse IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-8, IL-9, IL-10, IL-12 (p40), IL-12 (p70), IL-16, IL-17, GM-CSF, IFN-γ, TNF, TNFRI, TNFRII, MCP-1, CRG
Human IL-1α, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-10, IL-12 (p40), IL-12 (p70), IL-13, IL-16, GM-CSF, G-CSF, TNF, LT-α, TNFRI, TNFRII, MCP-1, MCP-2, IFN-γ, RANTES, MIG
Rat IL-1α, IL-2, IL-4, IL-6, IL-10, GM-CSF, IFN-γ, MCP-1, TNF.

Western Blot: The purified ALF-161 antibody has been found useful for Western blotting. Please note that this application is not routinely tested at BD Biosciences Pharmingen.

Blocking Control for Intracellular Staining: The purified ALF-161 antibody (Cat. No. 550604) can be used as a blocking control to demonstrate specificity of IL-1α staining by PE-labeled ALF-161 antibody (Cat. No. 559810). To perform this control, the fixed/permeabilized cells (~1 million) can be incubated with 5-10 µg of unlabeled ALF-161 antibody (Cat. No. 550604) for 15 minutes at 4°C, prior to staining with PE-labeled ALF-161 antibody (eg ≤ 0.12 µg mAb/1 million cells). The intracellular staining technique and the use of blocking controls have been described in detail by C. Prussin and D. Metcalf, Specific methodology, please visit the protocols section or chapter on intracellular staining in the Immune Function Handbook, both of which are posted on our web site, wwwbdbiosciences.com.

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### 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>550606</td>
<td>Biotin Rabbit Anti-Mouse IL-1α</td>
<td>0.5 mg</td>
<td>C1150-27</td>
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<tr>
<td>559810</td>
<td>PE Hamster Anti-Mouse IL-1α</td>
<td>0.1 mg</td>
<td>ALF-161</td>
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### Product Notices

1. 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://wwwbdbiosciencescom/pharmingen/hamster_chart_11x17.pdf.
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
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.

### 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. (Clone-specific: Neutralization)
