Technical Data Sheet

Purified NA/LE Rat Anti-Mouse CD126

Product Information

Material Number: 554459
Alternate Name: IL-6 Receptor α chain
Size: 0.5 mg
Concentration: 1.0 mg/ml
Clone: D7715A7
Immunogen: OKT4 hybridoma cells
Isotype: Rat IgG2b, κ
Reactivity: QC Testing: Mouse
Storage Buffer: No azide/low endotoxin: Aqueous buffered solution containing no preservative, 0.2µm sterile filtered. Endotoxin level is ≤0.1 EU/µg (≤0.01 ng/µg) of protein as determined by the LAL assay.

Description

The D7715A7 antibody reacts with the mouse IL-6 receptor. The immunogen used to generate the D7715A7 hybridoma was OKT4 hybridoma cells. The D7715A7 hybridoma was selected based on its capacity to produce antibody that inhibited IL-6 binding to 2F4 cells (mouse B-cell hybridoma expressing high levels of IL-6 receptors). The binding of purified D7715A7 to B9 cells (mouse B-cell hybridoma expressing high levels of IL-6 receptors) is inhibited by recombinant mouse IL-6. This antibody has been reported to inhibit the in vitro and in vivo growth of the IL-6-dependent plasmacytoma line, T1033C2.

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

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<td>Flow cytometry</td>
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Neutralization Activity:

This antibody has been reported to be useful for the neutralization of mouse IL-6 bioactivity. Neutralization activity may be measured using a proliferation assay with 1 ng/mL recombinant mouse IL-6 (Cat. No. 554582) and NFS-60 at 4 x 10^4 cells/mL as indicator cells (i.e. preincubation of the antibody with recombinant mouse IL-6 for 60 minutes).
50% Neutralization (ND50) at 1.0 - 6.0 µg/mL
≥ 95% Neutralization at 10 - 50 µg/mL

Recommended Assay Procedure:

Flow cytometry: For optimal staining, the D7715A7 antibody should be used in conjunction with Biotin Goat Anti-Rat Ig (Cat. No. 554014) and PE Streptavidin (Cat. No. 554061) in a three-step staining procedure to amplify immunofluorescent signals for the flow cytometric analysis of cytokine receptor-expressing cells.

Suggested Companion Products

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<tr>
<td>554582</td>
<td>Recombinant Mouse IL-6</td>
<td>5 µg</td>
<td>(none)</td>
</tr>
<tr>
<td>556968</td>
<td>Purified NA/LE Rat IgG2b, κ Isotype Control</td>
<td>0.5 mg</td>
<td>A95-1</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.

References