Technical Data Sheet

Purified Rat Anti-Human IL-12Rβ2

Product Information

Material Number: 550722
Alternate Name: IL12RB2; Interleukin-12 receptor beta-2 chain
Size: 0.1 mg
Concentration: 0.5 mg/ml
Clone: 2B6/12beta2
Isotype: Rat IgG2a, κ
Reactivity: QC Testing: Human
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The 2B6 monoclonal antibody specifically recognizes the Interleukin 12 Receptor beta 2 subunit (IL-12Rβ2). IL-12Rβ2 serves as the signaling subunit that combines with CD212 (Interleukin 12 Receptor beta 1 subunit/ IL-12Rβ1) to form the functional receptor for IL-12. The IL-12Rβ2 is expressed on T cells and NK cells. IL-12R is a glycoprotein member of the hemopoietin receptor superfamily and is related to gp130, the granulocyte-colony stimulating factor (G-CSF) receptor and leukemia inhibitory factor (LIF). IL-12 is an immunomodulatory cytokine produced mainly by antigen presenting cells (APC) and plays a role in promoting Th1-type responses and cell mediated immunity. It stimulates proliferation of T cells and NK cells, enhances lytic activity of lymphokine activated (LAK) cells and cytolytic T cells (CTL).

Profile of CD3-stimulated peripheral blood mononuclear cells (3 days) analyzed by flow cytometry.

Preparation and Storage

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

Application Notes

Application

<table>
<thead>
<tr>
<th>Application</th>
<th>Routinely Tested</th>
<th>Reported</th>
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<tbody>
<tr>
<td>Flow cytometry</td>
<td></td>
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<tr>
<td>Fluorescence microscopy</td>
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Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>555841</td>
<td>Purified Rat IgG2a, κ Isotype Control</td>
<td>0.1 mg</td>
<td>R35-95</td>
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<tr>
<td>554016</td>
<td>FITC Goat Anti-Rat Ig</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 mL</td>
<td>(none)</td>
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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. 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