Technical Data Sheet

PE Mouse Anti-Human CD132

Product Information

Material Number: 555900
Alternate Name: IL2RG; IL-2RG; IL-2Rγ; Common gamma chain; γc; CIDX; SCIDX; SCIDX1; IMD4
Size: 0.2 mg
Concentration: 0.2 mg/ml
Clone: AG184
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
Workshop: VI C-100
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description
The AG184 monoclonal antibody specifically binds to the 65-70 kDa common γ subunit (γc) that is shared by the IL-2, IL-4, IL-7, IL-9, IL-15 and IL-21 receptor complexes. The γc receptor is a type 1 transmembrane glycoprotein that is constitutively expressed by most peripheral T and B lymphocytes, NK cells, monocytes and granulocytes. The cytoplasmic domain of the γc chain plays an important role in cytokine-mediated signal transduction. By immunofluorescent staining and flow cytometric analyses, the AG184 antibody has been shown to specifically recognize human γc expressed by cell lines including human γc gene-transfected cell lines which are known to express the human γc chain. The AG184 antibody can bind the γc chain in the receptors complexed with IL-2, IL-4, or IL-7, indicating that the antibody recognizes an epitope which is distinct from the cytokine binding site of the γc chain.

Preparation and Storage
Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application
Flow cytometry Routinely Tested

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>554680</td>
<td>PE Mouse IgG1, κ Isotype Control</td>
<td>0.1 mg</td>
<td>MOPC-21</td>
</tr>
<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 mL</td>
<td>(none)</td>
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<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
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<tr>
<td>555899</td>
<td>Lysing Buffer</td>
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<tr>
<td>349202</td>
<td>BD FACSTM Lysing Solution</td>
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<tr>
<td>561699</td>
<td>PE Mouse Anti-Human CD132</td>
<td>25 µg</td>
<td>AG184</td>
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</tbody>
</table>

Flow cytometric analysis of CD132 expression on human peripheral blood lymphocytes. Whole blood was stained with either PE Mouse Anti-Human CD132 (Cat. No. 555900/561699; solid line histogram) or PE Mouse IgG1, κ Isotype Control (Cat. No. 554680; dashed line histogram). Erythrocytes were lysed with BD Pharm Lyse™ Lysing Buffer (Cat. No. 555899). Fluorescent histograms were derived from gated events with the forward and side light-scattering characteristics of viable lymphocytes. Flow cytometry was performed on a BD FACScan™ system.

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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. 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.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

References