Technical Data Sheet

PE Mouse Anti-Human TRAIL-R1 (CD261)

Product Information

Material Number: 564180
Alternate Name: TNFRSF10A; TRAIL Receptor 1; TRAIL-R1; APO2; DR4; Death receptor 4
Size: 100 tests
Vol. per Test: 5 µl
Clone: S35-934
Immunogen: Human TRAIL-R1 Recombinant Protein
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The S35-934 monoclonal antibody specifically binds to TNF-related apoptosis inducing ligand receptor 1 (TRAIL-R1/TRAIL Receptor 1). TRAIL-R1 is also known as CD261, Death Receptor 4 (DR4) and APO2. TRAIL-R1 is a type I transmembrane protein that is encoded by TNFRSF10A (tumor necrosis factor receptor superfamily, member 10a). It serves as a receptor for TNF-related apoptosis-inducing ligand (TRAIL) which is also known as CD253 and TNFSF10. TRAIL-R1 is expressed by a variety of tumor-derived cell lines. It is generally expressed at very low levels by most leukocytes. When bound by TRAIL, TRAIL-R1 can promote recruitment and subsequent activation of caspase-8, ultimately triggering the activation of effector caspases within cells that lead to apoptosis. Many transformed cell types are susceptible to TRAIL:TRAIL-R1-mediated cell death whereas normal cells are typically resistant.

Flow cytometric analysis of CD261 expression on human erythroleukemia cells. Cells from the human Hel 92.1.7 (Erythroleukemia, ATCC TIB-180) cell line were stained with either PE Mouse IgG1, κ Isotype Control (Cat. No. 554680; dashed line histogram) or PE Mouse Anti-Human CD261 antibody (Cat. No. 564180; solid line histogram). The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of viable cells. Flow cytometric analysis was performed using a BD FACSCanto™ II Flow Cytometer System.

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 |

Recommended Assay Procedure:

Staining cells at 37°C with PE Mouse Anti-Human CD261 antibody may improve the fluorescence intensity of positively stained cells upon flow cytometric analysis.
Suggested Companion Products

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<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<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>554680</td>
<td>PE Mouse IgG1, κ Isotype Control</td>
<td>0.1 mg</td>
<td>MOPC-21</td>
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</tbody>
</table>

Product Notices

2. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use $1 \times 10^6$ cells in a 100-µl experimental sample (a test).
3. An isotype control should be used at the same concentration as the antibody of interest.
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.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References


