Technical Data Sheet

Purified Mouse Anti-Human CD137 Ligand

Product Information

Material Number: 559445
Alternate Name: 4-1BB Ligand; 4-1BB-L; TNFSF9; TNLG5A
Size: 0.1 mg
Concentration: 0.5 mg/ml
Clone: C65-485
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The C65-485 monoclonal antibody specifically recognizes the type II membrane protein known as 4-1BB Ligand (4-1BB-L) or CD137 Ligand (CD137L). This molecule belongs to the TNF superfamily and is encoded by TNFSF9 (Tumor necrosis factor superfamily member 9). CD137 Ligand has been reported to have costimulatory function on activated T cells. Reports suggest that stimulation of activated T cells via CD137 Ligand does not require the presence of other costimulatory molecules, including CD28. Some studies have reported human CD137 Ligand to be expressed preferentially on primary B cells and B-cell lines. The C65-485 antibody is able to react with recombinant human 4-1BB Ligand (rh4-1BB-L/CD137L) bound to CD137 (4-1BB receptor) expressed on phytohemagglutinin (PHA)-stimulated PBMC.

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>
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<tbody>
<tr>
<td>Flow cytometry</td>
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</table>

Flow cytometric analysis of CD137 ligand expression on Hut-78 cell line. Hut-78 cells were stained with either Purified Mouse Anti-Human CD137 Ligand (Cat. No. 559445; solid line histogram) or Purified Mouse IgG1, κ Isotype Control (Cat. No. 555746; dashed line histogram), then FITC Goat Anti-Mouse IgG/IgM (Cat. No. 555988). Fluorescence histograms depicting CD137 ligand (or Ig isotype control) expression were derived from gated events with the forward and side light-scatter characteristics of viable cells.

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>555746</td>
<td>Purified Mouse IgG1, κ Isotype Control</td>
<td>0.1 mg</td>
<td>MOPC-21</td>
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<tr>
<td>555988</td>
<td>FITC Goat Anti-Mouse IgG/IgM</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 mL</td>
<td>(none)</td>
</tr>
<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
<td>500 mL</td>
<td>(none)</td>
</tr>
</tbody>
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559445 Rev. 6
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.
3. An isotype control should be used at the same concentration as the antibody of interest.
4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.

References