PE Mouse Anti-Human TREM-1 (CD354)

Product Information

Material Number: 565555
Alternate Name: TREM1, Triggering receptor expressed on myeloid cells 1
Size: 50 Tests
Vol. per Test: 5 µl
Clone: 6B1 (also known as 6B1)
Immunogen: Human Trem-1 Recombinant Protein
Isotype: Mouse (BALB/c) IgG1, κ
Reactivity: Human
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The 6B1 monoclonal antibody specifically binds to TREM-1 (Triggering Receptor Expressed on Myeloid Cells 1 or Triggering Receptor Expressed on Monocytes 1) which is also known as CD354. CD354 is a type I transmembrane glycoprotein that belongs to the immunoglobulin superfamily. CD354 is highly expressed by neutrophils and monocytes. It is also reportedly expressed at lower levels by a variety of cells including subsets of T and B cells, NK cells and dendritic cells. Its expression is upregulated on leucocytes in response to microbial lipopolysaccharide, e.g., during microbial infections or sepsis. CD354 activation triggers the release of proinflammatory cytokines and chemokines. A soluble form of CD354 has been described that may play a protective role in some infectious disease states.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

<table>
<thead>
<tr>
<th>Flow cytometry</th>
<th>Routinely Tested</th>
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Multiparameter flow cytometric analysis of TREM-1(CD354) expression on human peripheral blood leucocytes. Whole blood was stained with either PE Mouse IgG1 κ Isotype Control (Cat. No. 554680; Left Panel) or PE Mouse Anti-Human TREM-1 (CD354) antibody (Cat. No. 565555; Right Panel). Erythrocytes were lysed with BD Pharm Lyse™ Lysing Buffer (Cat. No. 555899). Two-parameter flow cytometric contour plots showing the correlated expression of TREM-1 (CD354) [or Ig Isotype control staining] versus side-light scatter (SSC) signals were derived from gated events with the forward and side-light scatter characteristics of intact leucocyte populations. Flow cytometric analysis was performed using a BD FACSCanto™ II Flow Cytometer System.
Suggested Companion Products

<table>
<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>
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<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
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<td>554680</td>
<td>PE Mouse IgG1, κ Isotype Control</td>
<td>0.1 mg</td>
<td>MOPC-21</td>
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<tr>
<td>555899</td>
<td>Lysing Buffer</td>
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<td>(none)</td>
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<tr>
<td>349202</td>
<td>BD FACSTM Lysing Solution</td>
<td>100 mL</td>
<td>(none)</td>
</tr>
</tbody>
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Product Notices

1. 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).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
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.

References


