Technical Data Sheet

PE Mouse Anti-Human CD321 (JAM-1)

Product Information

Material Number: 552556
Alternate Name: JAM-1; Platelet F11 receptor; F11R; JAM-A; PAM-1
Size: 100 Tests
Vol. per Test: 20 µl
Clone: M.Ab.F11
Isotype: Mouse (BALB/c) IgG1, κ
Reactivity: QC Testing: Human
Workshop: VIII 80154

Storage Buffer: Aqueous buffered solution containing BSA, protein stabilizer, and ≤0.09% sodium azide.

Description

The M.Ab.F11 monoclonal antibody specifically binds to CD321 which is also known as JAM-1 (Junctional adhesion molecule 1), Junctional adhesion molecule A (JAM-A), and F11 Receptor (F11R). CD321 is a 32-35 kDa type I transmembrane glycoprotein that includes two extracellular immunoglobulin-like domains. CD321 is expressed on platelets, leukocytes, red blood cells, endothelial cells, epithelial cells, and various cell lines. CD321 functions as an adhesion receptor molecule on platelets. It also supports the tight junction formation between endothelial cells, where it may regulate the transendothelial migration of leukocytes, and epithelial cells. M.Ab.F11 is a stimulatory antibody that can induce morphological changes, granule secretion, and aggregation in human platelets.

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>555749</td>
<td>PE Mouse IgG1, κ Isotype Control</td>
<td>100 Tests</td>
<td>MOPC-21</td>
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<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 mL</td>
<td>(none)</td>
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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 × 10^6 cells in a 100-µl experimental sample (a test).
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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

5. 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.

6. An isotype control should be used at the same concentration as the antibody of interest.

References


