BD Horizon™

Technical Data Sheet

BB515 Mouse Anti-Human CD102

Product Information

Material Number: 565932
Alternate Name: ICAM2; ICAM-2; Intercellular adhesion molecule 2
Size: 25 Tests
Vol. per Test: 5 µl
Clone: CBR-IC2/2
Immunogen: Human ICAM-2 Transfected Cell Line
Isotype: Mouse (BALB/c) IgG2a, κ
QC Testing: Human
Workshop: V S086
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The CBR-IC2/2 monoclonal antibody specifically binds to CD102 which is also known as, intercellular adhesion molecule-2 (ICAM-2/ICAM2). CD102 is a type I transmembrane glycoprotein, member of the immunoglobulin supergene family, with an approximate molecular weight of 55-65 kDa. Its extracellular domain consists of two C2-type immunoglobulin-like subunits. The transmembrane region is 26 residues in size and the intracellular region also has 26 residues. CD102 is expressed on vascular endothelial cells, lymphocytes, monocytes, eosinophils, and platelets, but not on resting neutrophils. It is a ligand for the leukocyte integrin CD11a/CD18, or leukocyte function-associated antigen-1 (LFA-1), and there are reports of CD102 binding to leukocyte integrin CD11b/CD18 (Mac-1). Antibody CBR-IC2/2 blocks the binding of CD102 to leukocyte integrin CD11a/CD18. CD102 plays an important role in lymphocyte recirculation and in providing costimulatory signals in the immune response.

The antibody was conjugated to BD Horizon BB515 which was developed exclusively by BD Biosciences. With an excitation max of 490 nm and an emission max of 515 nm, BD Horizon BB515 can be excited by the 488 nm laser and detected in a standard FITC set (eg, 530/30-nm filter). This dye provides a much brighter alternative to FITC with less spillover into the PE detector.

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 BD Horizon™ BB515 under optimum conditions and unconjugated antibody was removed.

BD Biosciences

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.

Unless otherwise noted, BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2015 BD
565932 Rev. 1
Flow cytometry Routinely Tested

Recommended Assay Procedure:
For optimal results, it is recommended to perform 2 washes after staining with antibodies. Cells may be prepared, stained with antibodies and washed twice with wash buffer per established protocols for immunofluorescent staining, prior to acquisition on a flow cytometer. Performing fewer than the recommended wash steps may lead to increased spread of the negative population.

Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>564515</td>
<td>BB515 Mouse IgG2a, κ Isotype Control</td>
<td>50 µg</td>
<td>G155-178</td>
</tr>
<tr>
<td>564676</td>
<td>BB515 Mouse Anti-Human CD102</td>
<td>50 Tests</td>
<td>CBR-IC2/2</td>
</tr>
<tr>
<td>349202</td>
<td>BD FACSTM Lysing Solution</td>
<td>100 mL</td>
<td>(none)</td>
</tr>
<tr>
<td>555899</td>
<td>Lysing Buffer</td>
<td>100 mL</td>
<td>(none)</td>
</tr>
<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>
<tr>
<td>563794</td>
<td>Brilliant Stain Buffer</td>
<td>100 Tests</td>
<td>(none)</td>
</tr>
</tbody>
</table>

Product Notices
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. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
4. The manufacture, use, sale, offer for sale, or import of this product is subject to one or more patents or pending applications. This product, and only in the amount purchased by buyer, may be used solely for buyer’s own internal research, in a manner consistent with the accompanying product literature. No other right to use, sell or otherwise transfer (a) this product, or (b) its components is hereby granted expressly, by implication or by estoppel. Diagnostic uses require a separate license.
5. 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).
6. An isotype control should be used at the same concentration as the antibody of interest.

References