BB515 Mouse Anti-Human CD235a

Product Information

Material Number: 565234
Alternate Name: CD235ab; CD235a, Glycophorin-A, GYP-A, GPA; CD235b; Glycophorin-B, GYP-B, GPB
Size: 25 µg
Concentration: 0.2 mg/ml
Clone: GA-R2 (HIR2)
Isotype: Mouse IgG2b, κ
Reactivity: QC Testing: Human
Workshop: VII 70299
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The GA-R2 (also known as HIR2) monoclonal antibody specifically binds to CD235a and CD235b. CD235a is also known as Glycophorin A (GYP-A, GPA), Sialoglycoprotein alpha, MN sialoglycoprotein, or PAS-2. CD235b is otherwise known as Glycophorin B (GYP-B, GPB, GLPB), Sialoglycoprotein delta, SS-active sialoglycoprotein, or PAS-3. CD235a and CD235b are type I transmembrane sialoglycoproteins that are expressed on human erythrocytes, erythroid precursor cells and certain leukemic cell types. CD235a carries blood group M and N antigens, whereas CD235b contains S, s, and U antigens. This antibody is useful for the identification and characterization of erythrocytes, certain myeloid leukemic cell types, and studies of erythroid cell development and infectious diseases with erythrocyte involvement. Glycophorins may play a role in preventing cell agglutination.

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 (e.g. 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.

Flow cytometric analysis of CD235a expression on human peripheral blood erythrocytes - Staining comparisons between BD Horizon™ BB515- and FITC-conjugated antibodies. Whole blood was stained with either BD Horizon BB515 Mouse IgG2b, κ Isotype Control (Cat. No. 564510; dashed line histogram) or BD Horizon™ BB515 Mouse Anti-Human CD235a antibody (Cat. No. 565233/565234; bold solid line histogram). Alternatively, the cells were stained with FITC Anti-Human CD235a antibody (Cat. No. 561017/559943; thin solid line histogram). Overlaid histograms are shown to facilitate staining comparisons between BB515 Anti-CD235a antibody versus its Ig Isotype Control (Left Panel), and BB515 Anti-CD235a antibody versus FITC Anti-CD235a antibody (Right Panel). The fluorescence histograms showing CD235a expression (or Ig Isotype control staining) were derived from gated events with the forward and side light-scatter characteristics of erythrocytes.

Flow cytometric analysis was performed using a BD LSRFortessa™ Cell Analyzer System.

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565234 Rev. 1
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

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<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<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>
<td>500 mL</td>
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<tr>
<td>563794</td>
<td>Brilliant Stain Buffer</td>
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<tr>
<td>564510</td>
<td>BB515 Mouse IgG2b, κ Isotype Control</td>
<td>50 μg</td>
<td>27-35</td>
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<tr>
<td>565233</td>
<td>BB515 Mouse Anti-Human CD235a</td>
<td>0.1 mg</td>
<td>GA-R2 (HIR2)</td>
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</table>

Product Notices
1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. 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.
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
Bain BJ. Leukemia diagnosis: A guide to the FAB classification. 1990. (Biology)