Product Information

Material Number: 562938
Alternate Name: Glycophorin-A; GYP A; GPA; PAS-2; MN sialoglycoprotein; Sialoglycoprotein A
Size: 50 tests
Vol. per Test: 5 µl
Clone: GA-R2 (HIR2)
Isotype: Mouse IgG2b, κ
Reactivity: QC Testing: Human
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The GA-R2 (also known as HIR2) monoclonal antibody specifically binds to CD235a, otherwise known as Glycophorin A (GYPA, GPA), PAS-2, MN sialoglycoprotein (MNS, MN), and Sialoglycoprotein A/alpha. CD235a is a type I transmembrane sialoglycoprotein that is expressed on human erythrocytes, erythroid precursor cells and certain leukemic cell types. 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. Mature, non-nucleated red blood cells characteristically express very high levels of glycophorin A.

The antibody was conjugated to BD Horizon™ BV421 which is part of the BD Horizon™ Brilliant Violet™ family of dyes. With an Ex Max of 407-nm and Em Max at 421-nm, BD Horizon™ BV421 can be excited by the violet laser and detected in the standard Pacific Blue™ filter set (eg, 450/50-nm filter). BD Horizon™ BV421 conjugates are very bright, often exhibiting a 10 fold improvement in brightness compared to Pacific Blue™ conjugates.

Flow cytometric analysis of CD235a expression on human peripheral blood erythrocytes. Whole blood was stained with BD Horizon™ BV421 Mouse anti-Human CD235a antibody (Cat. No. 562938; solid line histogram) or with a BD Horizon™ BV421 Mouse IgG2b, κ Isotype Control (Cat. No. 562748; dashed line histogram). The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of erythrocytes. Flow cytometry was performed using a BD™ LSR II Flow Cytometer System.

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™ BV421 under optimum conditions, and unconjugated antibody and free BD Horizon™ BV421 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>562748</td>
<td>BV421 Mouse IgG2b, κ Isotype Control</td>
<td>50 µg</td>
<td>27-35</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 $1 \times 10^6$ cells in a 100-µl experimental sample (a test).

2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

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


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

7. Pacific Blue™ is a trademark of Molecular Probes, Inc., Eugene, OR.

8. Brilliant Violet™ 421 is a trademark of Sirigen.

References

Bain BJ. Leukemia diagnosis: A guide to the FAB classification. 1990. (Biology)


