Technical Data Sheet

PE Mouse Anti-Human CD108

Product Information

Material Number: 552830
Alternate Name: JMH; SEM7A; Sema K1; Sema L; John-Milton-Hargen human blood group Ag
Size: 100 Tests
Vol. per Test: 20 µl
Clone: KS-2
Immunogen: BALB/c splenocytes immunized with PHA-activated human PBMCs fused with murine cell line NS-1
Isotype: Mouse IgG2a, κ
Reactivity: QC Testing: Human
Storage Buffer: Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The KS-2 monoclonal antibody specifically recognizes the John-Milton-Hagen (JMH) blood group antigen. CD108 is a 76-80 kDa glycosylphosphatidylinositol (GPI)-linked protein. It is expressed on erythrocytes, at low levels on lymphocytes, but higher levels are detected on lymphoblasts and lymphoblastic cell lines. An adhesion function for CD108 has been suggested but this has not been demonstrated. Autoantibodies to this molecule are not uncommon and often associated with the loss of JMH antigen expression on erythrocytes.

Flow cytometric analysis of CD108 expression on HPB-ALL cells. HPB-ALL cells were stained with either PE Mouse Anti-Human CD108 (Cat. No. 552830; solid line histogram) or PE Mouse IgG2a, κ isotype Control (Cat. No. 555574; dashed line histogram). Fluorescence histograms were derived from gated events with the side and forward light-scattering characteristics of viable cells.

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 |

Recommended Assay Procedure:

BD™ CompBeads can be used as surrogates to assess fluorescence spillover (Compensation). When fluorochrome conjugated antibodies are bound to CompBeads, they have spectral properties very similar to cells. However, for some fluorochromes there can be small differences in spectral emissions compared to cells, resulting in spillover values that differ when compared to biological controls. It is strongly recommended that when using a reagent for the first time, users compare the spillover on cell and CompBead to ensure that BD Comp beads are appropriate for your specific cellular application.
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>555574</td>
<td>PE Mouse IgG2a, κ Isotype Control</td>
<td>100 Tests</td>
<td>G155-178</td>
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<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
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<td>(none)</td>
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<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
<td>500 mL</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. 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. An isotype control should be used at the same concentration as the antibody of interest.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Please refer to http://regdocs.bd.com to access safety data sheets (SDS).

References


