PE Mouse Anti-Rat CD24

**Product Information**

**Material Number:** 562104  
**Alternate Name:** HSA; Heat-stable antigen; Nectadrin; Cd24a; Signal transducer CD24  
**Size:** 50 µg  
**Concentration:** 0.2 mg/ml  
**Clone:** HIS50  
**Immunogen:** Rat bone marrow cells  
**Isotype:** Mouse IgM, κ  
**Reactivity:** QC Testing: Rat  
**Storage Buffer:** Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

**Description**

The HIS50 monoclonal antibody specifically binds to CD24 (Heat-Stable Antigen, HSA or HsAg), a variably glycosylated GPI-anchored membrane protein. In the rat, Cd24 mRNA is found in a variety of epithelia, neural tissue, lymph node germinal centers and thymus. The HIS50 antibody detects CD24 on most B-lineage cells in the bone marrow, on most highly surface IgM (sIgM)-positive B lymphocytes in the blood and spleen, and on marginal-zone B cells in the spleen and lymph node. Variable levels of CD24 are detected on B cells that expresses low levels of sIgM and on follicular B lymphocytes. The HIS50 antibody does not detect CD24 on rat thymocytes nor peripheral T lymphocytes, NK cells, or granulocytes. The HIS50 antibody crossreacts with intracellular antigen(s) in human lymphocytes.

**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

**Multicolor flow cytometric analysis of CD24 expression on rat bone marrow cells.** Lewis rat bone marrow cells were stained with a FITC Mouse Anti-Rat CD45R antibody (Cat. No. 554880/561876) and either PE Mouse IgM, κ Isotype Control (Cat. No. 555584, Left Panel) or a PE Mouse Anti-Rat CD24 antibody (Cat. No. 562104, Right Panel). Flow cytometric fluorescence dot plots showing CD24 expression (or Ig Isotype Control staining) versus CD45R were derived from gated events with the forward and side light-scatter characteristics of viable bone marrow cells. Flow cytometry was performed using a BD™ LSR II Flow Cytometer System.

**For Research Use Only. Not for use in diagnostic or therapeutic procedures.**
Suggested Companion Products

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
</tr>
</thead>
<tbody>
<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
<td>500 ml</td>
<td>(none)</td>
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<tr>
<td>555584</td>
<td>PE Mouse IgM, κ Isotype Control</td>
<td>100 tests</td>
<td>G155-228</td>
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<td>554880</td>
<td>FITC Mouse Anti-Rat CD45R</td>
<td>0.5 mg</td>
<td>HIS24</td>
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<tr>
<td>561876</td>
<td>FITC Mouse Anti-Rat CD45R</td>
<td>50 µg</td>
<td>HIS24</td>
</tr>
</tbody>
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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. An isotype control should be used at the same concentration as the antibody of interest.
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 Fluorochrome Web Page at www.bdbiosciences.com/colors.

References

