**FITC Rat Anti-Mouse CD24**

**Product Information**

<table>
<thead>
<tr>
<th>Material Number:</th>
<th>561777</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alternate Name:</td>
<td>CD24a; HSA; Heat Stable Antigen; Ly-52; Nectadrin; R13-Ag</td>
</tr>
<tr>
<td>Size:</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>Concentration:</td>
<td>0.5 mg/ml</td>
</tr>
<tr>
<td>Clone:</td>
<td>M1/69</td>
</tr>
<tr>
<td>Immunogen:</td>
<td>C57BL/10 Mouse Splenic T Lymphocytes</td>
</tr>
<tr>
<td>Isotype:</td>
<td>Rat (DA) IgG2b, κ</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>QC Testing: Mouse</td>
</tr>
<tr>
<td>Storage Buffer:</td>
<td>Aqueous buffered solution containing ≤0.09% sodium azide.</td>
</tr>
</tbody>
</table>

**Description**

The M1/69 monoclonal antibody specifically binds to CD24 (Heat-Stable Antigen, HSA or HsAg), a variably glycosylated, glycosyl-phosphatidylinositol-anchored membrane protein expressed on erythrocytes, granulocytes, monocytes, lymphocytes, and neurons. Hematopoietic stem cells of the embryonic yolk sac and fetal liver express CD24. Levels of expression of CD24 vary during differentiation of the T and B cell lineages. In the bone marrow, hematopoietic progenitors acquire CD24 expression upon commitment to the B-lymphocyte lineage. Immature B cells in the bone marrow express low CD24 levels whereas peripheral B lymphocytes express intermediate to high levels of CD24. The level of CD24 expression has been reported to rise upon activation of splenic B cells with LPS, but not with CD154 (CD40 Ligand). The majority of thymocytes express high levels of CD24, while most mature thymic and peripheral T lymphocytes do not express CD24. In contrast, TCR-bearing thymocytes which emigrate to the spleen are CD24+. Dendritic cells of the thymus, spleen, liver, and epidermal Langerhans cells have also been reported to express CD24. CD24 is not expressed by NK cells, as determined by staining with J11d mAb (Cat. No. 553146). CD24 is involved in the costimulation of CD4+ T cells by B cells, it is a "co-inducer" of in vitro thymocyte maturation, and it is a ligand of CD62P (P-selectin). While the monoclonal antibodies 30-F1, M1/69, and J11d all react with CD24, they show subtle differences in the level of staining of different lymphocyte populations. When possible, investigators should continue to use the same monoclonal anti-CD24 antibody as used in previous studies.

**Differential expression of CD24 on thymocytes and peripheral T lymphocytes.** C57BL/6 thymocytes were stained with FITC Rat anti-Mouse CD24 (Cat. No. 561777/553261, left panel). C57BL/6 splenocytes were simultaneously stained with FITC Rat anti-Mouse CD24 and PE Hamster anti-Mouse CD3e (Cat. No. 553063/553064, right panel). Flow cytometry was performed on a BD FACScan™ flow cytometry 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 FITC under optimum conditions, and unreacted FITC was removed.

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**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>
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<tbody>
<tr>
<td>553146</td>
<td>Purified Rat Anti-Mouse CD24</td>
<td>0.5 mg</td>
<td>J11d</td>
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<tr>
<td>553063</td>
<td>PE Hamster Anti-Mouse CD3e</td>
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<td>145-2C11</td>
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<tr>
<td>553988</td>
<td>FITC Rat IgG2b, κ Isotype Control</td>
<td>0.25 mg</td>
<td>A95-1</td>
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<tr>
<td>554656</td>
<td>Stain Buffer (FBS)</td>
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<tr>
<td>554657</td>
<td>Stain Buffer (BSA)</td>
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<tr>
<td>553261</td>
<td>FITC Rat Anti-Mouse CD24</td>
<td>0.5 mg</td>
<td>M1/69</td>
</tr>
</tbody>
</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. 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.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.

**References**


Kelly KA, Pearse M, Lefrancois L, Scollay R. Emigration of selected subsets of gamma delta + T cells from the adult murine thymus. *Int Immunol*. 1993; 5(4):331-335. (Biology)


