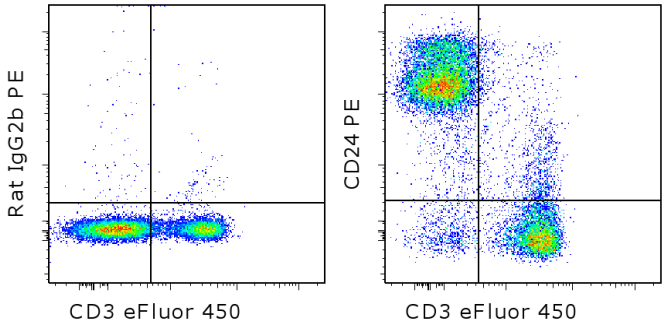
Anti-Mouse CD24 PE

Catalog Number: 12-0242
Also known as: Heat Stable Antigen, HSA
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57Bl/6 splenocytes with Anti-Mouse CD3e eFluor® 450 (cat. 48-0031) and 0.015 ug of Rat IgG2b K Isotype Control PE (cat. 12-4031) (left) or 0.015 ug of Anti-Mouse CD24 PE (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD24 PE
REF **Catalog Number:** 12-0242
Clone: M1/69
Concentration: 0.2 mg/mL
Host/Isotype: Rat IgG2b, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT **Batch Code:** Refer to vial
Use By: Refer to vial
Caution, contains Azide

Description

The M1/69 monoclonal antibody reacts with the mouse CD24 molecule, also known as Heat Stable Antigen (HSA). This 35-50 kDa molecule is anchored in the plasma membrane via phosphatidylinositol and is expressed by erythrocytes, thymocytes, peripheral lymphocytes and myeloid lineage. CD24 is a variably glycosylated molecule resulting in heterogeneity of molecular mass of this antigen on cells of different lineages and antibodies to CD24 exhibit subtle differences in staining level on lymphocyte populations. The expression of CD24 has been used to resolve stages of B lymphopoiesis in mouse bone marrow. It has been reported that P-selectin (CD62P) binds to CD24.

Applications Reported

The M1/69 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The M1/69 antibody has been tested by flow cytometric analysis of mouse splenocytes and thymocytes. This can be used at less than or equal to 0.03 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Hunte BE, Capone M, Zlotnik A, Rennick D, Moore TA. 1998. Acquisition of CD24 expression by Lin-CD43+B220(low)ckit(hi) cells coincides with commitment to the B cell lineage. Eur J Immunol. 28(11):3850-6.

Wilson, A., L. M. Day, et al. 1988. Subpopulations of mature murine thymocytes: properties of CD4-CD8+ and CD4+CD8- thymocytes lacking the heat-stable antigen. Cell Immunol 117(2): 312-26.

Alterman, L. A., I. N. Crispe, et al. 1990. Characterization of the murine heat-stable antigen: an hematolymphoid differentiation antigen defined by the J11d, M1/69 and B2A2 antibodies. Eur J Immunol 20(7): 1597-602.

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Springer T, Galfre G, Secher DS, Milstein C. 1978. Monoclonal xenogeneic antibodies to murine cell surface antigens: identification of novel leukocyte differentiation antigens. Eur J Immunol. 8(8):539-51.

Related Products
12-0241 Anti-Mouse CD24 PE (30-F1)
12-4031 Rat IgG2b K Isotype Control PE
48-0031 Anti-Mouse CD3e eFluor® 450 (145-2C11)

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