
Anti-Mouse CD24 Functional Grade Purified

Catalog Number: 16-0242

Also known as: Heat Stable Antigen, HSA

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Mouse CD24 Functional Grade Purified
Catalog Number: 16-0242
Clone: M1/69
Concentration: 1 mg/mL
Host/Isotype: Rat IgG2b, kappa
Handling Conditions: Use in sterile environment.
Endotoxin: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

REF



Formulation: aqueous buffer, no sodium azide
Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to vial

Use By: Refer to vial

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. M1/69 has also been reported in *in vitro* functional assays.

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 0.125 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 10⁵ to 10⁸ 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.

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

11-0241 Anti-Mouse CD24 FITC (30-F1)

11-4811 Anti-Rat IgG FITC

12-0241 Anti-Mouse CD24 PE (30-F1)

16-4031 Rat IgG2b K Isotype Control Functional Grade Purified

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