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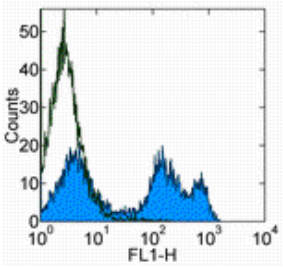
# Anti-Mouse CD24 Purified

**Catalog Number:** 14-0242
**Also Known As:**Heat Stable Antigen, HSA
**RUO: For Research Use Only**




Staining of BALB/c splenocytes with 0.06 ug of Rat IgG2b Isotype Control Purified (cat. 14-4031) (open histogram) or 0.06 ug of Anti-Mouse CD24 Purified (filled histogram) followed by Anti-Rat IgG FITC (cat. 11-4811). Total viable cells were used for analysis.

## Product Information

**Contents:** Anti-Mouse CD24 Purified
REF **Catalog Number:** 14-0242
**Clone:** M1/69
**Concentration:** 0.5 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.
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, immunoblotting (WB), and immunohistochemical staining. M1/69 has also been reported in *in vitro* functional assays. (Please use Functional Grade purified M1/69, cat. 16-0242, in 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 $10^5$ 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.

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

11-4811 Anti-Rat IgG FITC

12-0241 Anti-Mouse CD24 PE (30-F1)
14-4031 Rat IgG2b K Isotype Control Purified
48-0031 Anti-Mouse CD3e eFluor® 450 (145-2C11)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