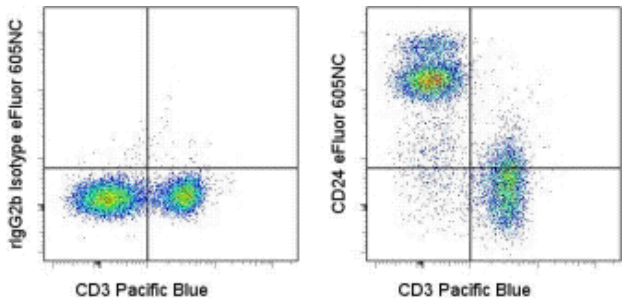
# Anti-Mouse CD24 eFluor® 605NC

**Catalog Number:** 93-0242
**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 Pacific Blue® and Rat IgG2b K Isotype Control eFluor® 605NC (cat. 93-4031) (left) or Anti-Mouse CD24 eFluor® 605NC (right). Total viable cells were used for analysis.

## Product Information

**Contents:** Anti-Mouse CD24 eFluor® 605NC
REF **Catalog Number:** 93-0242
**Clone:** M1/69
**Concentration:** 5 uL
**Host/Isotype:** Rat IgG2b, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
**Temperature Limitation:** Store at 2-8°C. Light sensitive material. This product is guaranteed for 6 months upon receipt when stored properly.
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

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

## Applications Tested

This M1/69 antibody has been pre-titrated and tested by flow cytometric analysis of mouse splenocytes. This can be used at 5 µL per test. A test is defined as the amount 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.

The isotype control eFluor 605NC rat IgG2b (cat. 93-4031) should be used at 5 µL/test.

**Laser/Filter Recommendation**: When using eFluor 605NC, we recommend excitation with the 405nm violet laser with an appropriate filter set, such as the 595LP dichroic mirror with the 605/40 bandpass filter. An acceptable alternative is the 610/20 bandpass filter. For instruments not equipped with a violet laser, the eFluor 605NC is also excited by the 488 nm blue laser and can be used as a PE-Texas Red alternative.

**Fixation Recommendation:** When fixing samples that have been stained with nanocrystal reagents, we recommend keeping the total volume at approximately 200 µL of IC Fixation Buffer (cat. 00-8222) and the exposure time 30-60 minutes to preserve the optimal fluorescent signal from the nanocrystal reagent.

For answers about fixation and other questions, please refer to Nanocrystal Frequently Asked Questions or contact eBioscience Technical Support.

## 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**
00-4222 Flow Cytometry Staining Buffer
93-4031 Rat IgG2b K Isotype Control eFluor® 605NC

**Legal**
Under patent number: US 7,939,170 and additional pending patent application(s)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