

# CD24 Monoclonal Antibody (M1/69), Super Bright 645, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotope	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M1/69
Conjugate	Super Bright 645
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2717087

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.5 µg/test	

## Product Specific Information

**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 tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 0.5 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for

Super Bright Staining Buffer for more information.

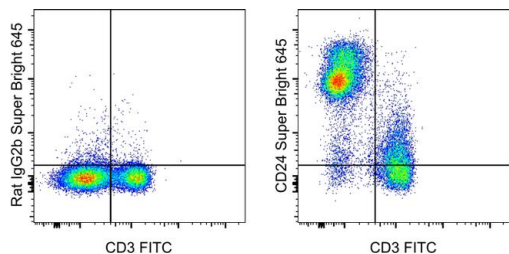
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 645 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

## Product Images For CD24 Monoclonal Antibody (M1/69), Super Bright 645, eBioscience™



### CD24 Antibody (64-0242-82) in Flow

C57BL/6 mouse splenocytes were stained with CD3 Monoclonal Antibody, FITC (Product # 11-0031) and 0.25  $\mu$ g of Rat IgG2b kappa Isotype Control, Super Bright 645 (Product # 64-4031) (left) or 0.25  $\mu$ g of CD24 Monoclonal Antibody, Super Bright 645 (Product # 64-0242) (right). Cells in the lymphocyte gate were used for analysis.

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