

CD24 Monoclonal Antibody (M1/69), APC-eFluor™ 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M1/69
Conjugate	APC-eFluor™ 780
Excitation/Emission Max	756/785 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10853172

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	40 Publications

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 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.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

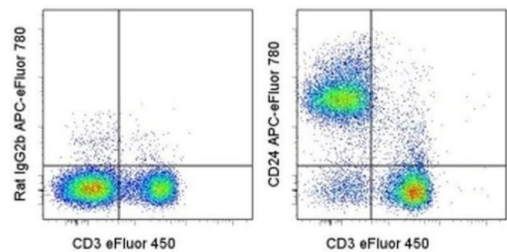
Light sensitivity: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 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: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD24 Monoclonal Antibody (M1/69), APC-eFluor™ 780, eBioscience™



CD24 Antibody (47-0242-82) in Flow
Staining of C57Bl/6 splenocytes with Anti-Mouse CD3 eFluor® 450 (Product # 48-0032-82) and 0.06 µg of Rat IgG2b K Isotype Control APC-eFluor® 780 (Product # 47-4031-82) (left) or 0.06 µg of Anti-Mouse CD24 APC-eFluor® 780 (right). Cells in the lymphocyte gate were used for analysis.

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40 References

Flow Cytometry (40)

STAR protocols	Year 2022
FACS and immunomagnetic isolation of early erythroid progenitor cells from mouse fetal liver.	
"Published figure using CD24 monoclonal antibody (Product # 47-0242-82) in Flow Cytometry"	
Authors: Braun TW,Kuoch MK,Khandros E,Li H	
Nature communications	Year 2022
IL-22 initiates an IL-18-dependent epithelial response circuit to enforce intestinal host defence.	Species Mouse
"47-0242-82 was used in Flow Cytometry to conclude that IL-18 in return regulates Stat3-mediated anti-microbial response in Paneth cells, Akt-Tcf4-triggered expansion of Lgr5+ stem cells to facilitate tissue repair, and AIEC clearance by promoting IFN+ T cells."	Dilution 1:200
Authors: Chiang HY,Lu HH,Sudhakar JN,Chen YW,Shih NS,Weng YT,Shui JW	

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