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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
Туре	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	41 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 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. 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.

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 fluorochome.

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

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Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L cell sample + 100 μ L IC Fixation Buffer) or 1step 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: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

08L Jong Jeo CD3 eFluor 450

CD24 Antibody (47-0242-82) in Flow

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

Staining of C57BI/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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41 References

Flow Cytometry (41)

Cell reports Transient suppression of SUMOylation in embryonic stem cells generates embryo-like structures. "47-0242-82 was used in Flow cytometry/Cell sorting to show that mouse embryonic stem cells (ESCs) solely exposed to chemical inhibition of SUMOylation generate embryo-like structures comprising anterior neural and trunk-associated regions." Authors: Cossec JC,Traboulsi T,Sart S,Loe-Mie Y,Guthmann M,Hendriks IA,Theurillat I,Nielsen ML,Torres-Padilla ME, Baroud CN,Dejean A	Year 2023 Species Mouse Dilution 1:100
STAR protocols 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	Year 2022

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