

CD24 Monoclonal Antibody (M1/69), Functional Grade, eBioscience™

Product Details	
Size	500 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse, Human
Host/Isotope	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Functional Grade, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	M1/69
Conjugate	Functional Grade
Form	Liquid
Concentration	1 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage Conditions	4° C
RRID	AB_468913

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	22 Publications
Functional Assay (FN)	Assay-Dependent	2 Publications
Immunofluorescence (IF)	-	4 Publications
T-Cell Activation (TCA)	-	1 Publication

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: The M1/69 antibody has been reported for use in flow cytometric analysis. M1/69 has also been reported in in vitro 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 10⁵ to 10⁸ cells/test. It is

recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 μm post-manufacturing filtered.

Purity: Greater than 90%, as determined by SDS-PAGE.

Endotoxin Level: Less than 0.001 ng/ μg antibody, as determined by LAL assay.

Aggregation: Less than 10%, as determined by HPLC.

29 References

Flow Cytometry (22)

Frontiers in immunology

ATF3 Sustains IL-22-Induced STAT3 Phosphorylation to Maintain Mucosal Immunity Through Inhibiting Phosphatases.

"Published figure using CD24 monoclonal antibody (Product # 16-0242-85) in Flow Cytometry"

Authors: Glal D,Sudhakar JN,Lu HH,Liu MC,Chiang HY,Liu YC,Cheng CF,Shui JW

Species
Not Applicable

Dilution
Not Cited

Year
2019

Nature communications

Adipocyte hypertrophy and lipid dynamics underlie mammary gland remodeling after lactation.

"Published figure using CD24 monoclonal antibody (Product # 16-0242-85) in Flow Cytometry"

Authors: Zwick RK,Rudolph MC,Shook BA,Holtrup B,Roth E,Lei V,Van Keymeulen A,Seewaldt V,Kwei S,Wysolmerski J,Rodeheffer MS,Horsley V

Species
Not Applicable

Dilution
Not Cited

Year
2018

[View more Flow references on thermofisher.com](#)

Functional Assay (2)

Scientific reports

CD24 induces changes to the surface receptors of B cell microvesicles with variable effects on their RNA and protein cargo.

"16-0242 was used in Functional assays to perform a systematic characterisation of B cell microvesicles released from WEHI-231 B lymphoma cells in response to CD24 stimulation."

Authors: Ayre DC,Chute IC,Joy AP,Barnett DA,Hogan AM,Grüll MP,Peña-Castillo L,Lang AS,Lewis SM,Christian SL

Species
Mouse
Not Applicable

Dilution
Not Cited
Not Cited

Year
2017

Immunology

Dynamic regulation of CD24 expression and release of CD24-containing microvesicles in immature B cells in response to CD24 engagement.

"Published figure using CD24 monoclonal antibody (Product # 16-0242-85) in Flow Cytometry"

Authors: Ayre DC,Elstner M,Smith NC,Moore ES,Hogan AM,Christian SL

Species
Human
Mouse
Not Applicable

Dilution
Not Cited
Not Cited
Not Cited

Year
2015

More applications with references on thermofisher.com

TCA (1) IF (4)

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