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

Product Details

Size	500 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse, Human
Host/Isotype	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
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	0.125 µg/test	34 Publications
Functional Assay (FN)	Assay-Dependent	2 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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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.

⊞ 41 References

Immunohistochemistry (1)

Molecular therapy : the journal of the American Society of Gene Therapy

Year 2010

Robust in vivo transduction of nervous system and neural stem cells by early gestational intra amniotic gene transfer using lentiviral vector.

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

Authors: Stitelman DH,Endo M,Bora A,Muvarak N,Zoltick PW,Flake AW,Brazelton TR

Immunocytochemistry (3)

Proceedings of the National Academy of Sciences of the United States of America

Year 2016

Casitas B-cell lymphoma (Cbl) proteins protect mammary epithelial cells from proteotoxicity of active c-Src accumulation.

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

Authors: Mukhopadhyay C,Triplett A,Bargar T,Heckman C,Wagner KU,Naramura M

Cell stem cell

Year 2016

Skin Adipocyte Stem Cell Self-Renewal Is Regulated by a PDGFA/AKT-Signaling Axis.

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

Authors: Rivera-Gonzalez GC,Shook BA,Andrae J,Holtrup B,Bollag K,Betsholtz C,Rodeheffer MS,Horsley V

View more ICC/IF references on thermofisher.cn

Flow Cytometry (34)

STAR protocols

Year 2022

FACS and immunomagnetic isolation of early erythroid progenitor cells from mouse fetal liver.

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

Authors: Braun TW,Kuoch MK,Khandros E,Li H

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More applications with references on thermofisher.cn

FN (2)   TCA (1)

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