CD24 Antibody – Rat Monoclonal

PRODUCT OVERVIEW

Product Name	CD24, Monoclonal Antibody
Full Product Name	Anti-Mouse CD24 Monoclonal Antibody (PE/Cyanine5 Conjugated) [M1/69]
Product Gene Name	anti-CD24 antibody
Product Synonym Gene Name	Mouse CD24
Product Synonym Names	Cd24a; Ly-52; HAS; Nectadrin; R13-Ag; X62 heat stable antigen
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	M1/69
Host	Rat
Species Reactivity	Mouse
Form/Format	PBS with 0.05% Proclin300, 1% BSA
Preparation and Storage	Store at 2-8 degree C and protect from prolonged exposure to light. Do not freeze.
Matching Pairs	Antibody: CD24 (MBS2559259) Isotype Control: IgG2b Clone #LTF-2 (MBS2557870)
3D Structure	ModBase 3D Structure for P24807
Conjugation	PE/Cyanine5
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD24 antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-CD24 antibody	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. The amount of the reagent is suggested to be used 2 muL or 5 muL of antibody per test (million cells in 100 ul staining volume or per 100 ul of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.
Related Product Information for anti-CD24 antibody	CD24 is a 35-45 kD protein also known as Heat Stable Antigen (HSA), Ly-52, or Nectadrin. It is a GPI-linked sialoglycoprotein expressed on lymphocytes, granulocytes, epithelial cells, thymocytes, monocytes, erythrocytes, and dendritic cells. CD24 expression varies during T and B cell differentiation and is a useful marker for delineating various lymphocyte developmental stages. CD24 serves as an adhesion or costimulatory molecule involved in T and B lymphocyte activation and differentiation by homophilic binding or binding to CD62P.
Other Notes	Small volumes of anti-CD24 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD24 purchase	MBS2559259 is an antibody targeting CD24. Also known as Anti-Mouse CD24 Monoclonal Antibody (PE/Cyanine5 Conjugated) [M1/69]. Reactive in Mouse. Host: Rat.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD24. It may not necessarily be applicable to this product.

NCBI GI #	55442

NCBI GeneID	12484
NCBI Accession #	CAA37822.1
UniProt Primary Accession #	P24807
UniProt Related Accession #	P24807
NCBI Official Full Name	heat stable antigen
NCBI Official Synonym Full Names	CD24a antigen
NCBI Official Symbol	Cd24a
NCBI Official Synonym Symbols	HSA; Cd24; Ly-52; nectadrin
UniProt Protein Name	Signal transducer CD24
UniProt Synonym Protein Names	Lymphocyte antigen 52; Ly-52; M1/69-J11D heat stable antigen; HSA; Nectadrin; R13-Ag; X62 heat stable antigen; CD_antigen: CD24
Protein Family	Signal transducer
UniProt Gene Name	Cd24
UniProt Synonym Gene Names	Cd24a; Ly-52; Ly-52; HSA
NCBI Protein Information	signal transducer CD24
UniProt Comments for CD24	May have a pivotal role in cell differentiation of different cell types. May have a specific role in early thymocyte development. Signaling could be triggered by the binding of a lectin-like ligand to the CD24 carbohydrates, and transduced by the release of second messengers derived from the GPI-anchor. Modulates B-cell activation responses (). In association with SIGLEC10 may be involved in the selective suppression of the immune response to danger-associated molecular patterns (DAMPs) such as HMGB1, HSP70 and HSP90 (PubMed:19264983). Plays a role in the control of autoimmunity (PubMed:20200274).
Research Articles on CD24	**1.** CD24 and CD49f expressions of E14.5 mouse mammary anlagen cells define putative distribution of earlier embryonic mammary stem cell activities.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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