

PE anti-mouse CD24 Antibody

Catalog# / Size	138503 / 50 µg 138504 / 200 µg
Clone	30-F1
Regulatory Status	RUO
Other Names	Heat Stable Antigen (HSA), HsAg, Ly-52, Nectadrin
Isotype	Rat IgG2c, κ
Description	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, dendritic cells, hematopoietic stem cells, and neurons. 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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Mouse thymus/spleen
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	0.2 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application References	1. Ledbetter JA, <i>et al.</i> 1979. <i>Immunol. Rev.</i> 47:63. (FC)
(PubMed link indicates BioLegend citation)	
Product Citations	1. Michela Miani <i>et al.</i> 2018. <i>Cell metabolism.</i> 28(4):557-572 . PubMed 2. Bommireddy R, <i>et al.</i> 2020. <i>Vaccines (Basel).</i> 8:. PubMed 3. Cong M, <i>et al.</i> 2021. <i>Methods Mol Biol.</i> 2388:59. PubMed 4. Perry JSA, <i>et al.</i> 2018. <i>Immunity.</i> 48:923. PubMed 5. Upadhya R, <i>et al.</i> 2016. <i>MBio.</i> 7: 00547-16. PubMed 6. Bradley T <i>et al.</i> 2018. <i>Cell reports.</i> 25(1):107-117 . PubMed 7. Kishi Y, <i>et al.</i> 2021. <i>STAR Protocols.</i> 2(2):100540. PubMed 8. Ioanna E Galani <i>et al.</i> 2017. <i>Immunity.</i> 46(5):875-890 . PubMed
RRID	AB_10576359 (BioLegend Cat. No. 138503) AB_10578416 (BioLegend Cat. No. 138504)

Antigen Details

Structure	GPI-linked sialoglycoprotein, 35-45 kD.
Distribution	Lymphocytes, granulocytes, epithelial cells, thymocytes, monocytes, erythrocytes, dendritic cells, and neurons
Function	Regulate B and T cell proliferation and differentiation.
Ligand/Receptor	P-selectin, CD24
Cell Type	B cells, Dendritic cells, Epithelial cells, Erythrocytes, Granulocytes, Lymphocytes, Monocytes, Neurons, Thymocytes
Biology Area	Cell Biology, Immunology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	<ol style="list-style-type: none">1. Li YS, <i>et al.</i> 1993. <i>J. Exp. Med.</i> 178:951.2. Aigner S, <i>et al.</i> 1995. <i>Int. Immunol.</i> 7:1557.3. Hunte BE, <i>et al.</i> 1998. <i>Eur. J. Immunol.</i> 28:3850.4. Auerbach R, <i>et al.</i> 1996. <i>Stem Cells</i> 14:269.5. Allman DM, <i>et al.</i> 1993. <i>J. Immunol.</i> 151:4431.
Gene ID	12484

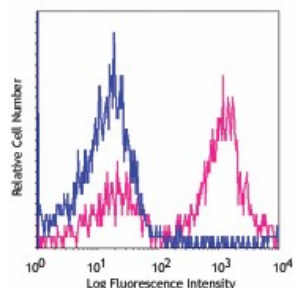
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-mouse CD24, PE anti-mouse CD24, APC anti-mouse CD24, PE/Cyanine7 anti-mouse CD24

Product Data



C57BL/6 mouse splenocytes stained with 30-F1 PE

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