

Alexa Fluor® 488 anti-mouse CD24 Antibody

Catalog# / Size	101815 / 25 µg 101816 / 100 µg
Clone	M1/69
Regulatory Status	RUO
Other Names	Heat Stable Antigen (HSA), Ly-52, Nectadrin
Isotype	Rat IgG2b, 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, 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.

Product Details

Verified Reactivity	Mouse
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	C57BL/10 mouse splenic T cells and concanavalin A-activated splenocytes
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions.
Concentration	0.5 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	<p>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 ≤0.06 µg per 10⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.</p> <p>Alexa Fluor® and Pacific Blue™ are trademarks of Life Technologies Corporation.</p> <p>View full statement regarding label licenses</p>
Excitation Laser	Blue Laser (488 nm)
Application Notes	Additional reported applications (for the relevant formats) include: Western blotting ¹ , <i>in vitro</i> induction of thymocyte maturation ² , complement-mediated cytotoxicity ³ , and immunohistochemistry of acetone-fixed frozen sections ⁴ , formalin-fixed paraffin-embedded sections ⁵ and zinc-fixed paraffin-embedded sections ¹⁰ . The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 101845 and 101846).
Application References	<ol style="list-style-type: none"> 1. Springer T, <i>et al.</i> 1978. <i>Eur. J. Immunol.</i> 8:539. (WB) 2. Crowley M, <i>et al.</i> 1989. <i>Cell. Immunol.</i> 118:108. (FA) 3. Veillette A, <i>et al.</i> 1989. <i>J. Exp. Med.</i> 170:1671. (FA) 4. Pandelakis A Flavell RA 1999 <i>JEM</i> 189:855 (FC, IHC) 5. Liu JQ, <i>et al.</i> 2007 <i>J. Immunol.</i> 178:6227. (FC, IF)
(PubMed link indicates BioLegend citation)	

6. Chappaz S, *et al.* 2007. *Blood* doi:10.1182/blood-2007-02-074245. (FC) [PubMed](#)
7. Rucci F, *et al.* 2010. *Proc Natl Acad Sci USA*. 107:3024. (FC) [PubMed](#)
8. Teague TK, *et al.* 2010. *Int Immunol*. 22:387. (FC) [PubMed](#)
9. Gracz AD, *et al.* 2010. *Am J Physiol Gastrointest Liver Physiol*. 298:590. (FC) [PubMed](#)
10. Chen CY, *et al.* 2008. *Endocrinology*. 10:1210. (FC, IHC) [PubMed](#)
11. Qui Q, *et al.* 2010. *J Immunol*. 184:1681. (FC) [PubMed](#)

Product Citations

1. Baranek T, *et al.* 2020. *Cell Reports*. 32(10):108116. [PubMed](#)
2. Xueyang Yu *et al.* 2017. *Immunity*. 47(5):903-912. [PubMed](#)

RRID

AB_493483 (BioLegend Cat. No. 101815)
 AB_493482 (BioLegend Cat. No. 101816)

Antigen Details

Structure	GPI-linked sialoglycoprotein, 35-45 kD
Distribution	B cells, granulocytes, epithelial cells, thymocytes, monocytes, erythrocytes, dendritic cells
Function	Regulates B cell proliferation and differentiation
Ligand/Receptor	P-selectin, CD24
Cell Type	B cells, Dendritic cells, Epithelial cells, Erythrocytes, Granulocytes, Monocytes, Thymocytes
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Barclay A, <i>et al.</i> 1997. <i>The Leukocyte Antigen FactsBook</i> Academic Press. 2. Aigner S, <i>et al.</i> 1997. <i>Blood</i> 89:3385. 3. Hough MR, <i>et al.</i> 1996. <i>J Immunol</i>. 156:479. 4. Liu Y, <i>et al.</i> 1992. <i>J Exp Med</i>. 175:437.
Gene ID	12484

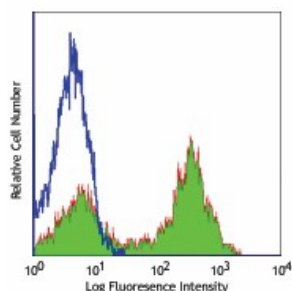
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Biotin anti-mouse CD24, FITC anti-mouse CD24, PE anti-mouse CD24, Purified anti-mouse CD24, Brilliant Violet 510™ anti-mouse CD24, PE/Cyanine5 anti-mouse CD24, APC anti-mouse CD24, Alexa Fluor® 488 anti-mouse CD24, Alexa Fluor® 647 anti-mouse CD24, Pacific Blue™ anti-mouse CD24, PE/Cyanine7 anti-mouse CD24, Alexa Fluor® 594 anti-mouse CD24, PerCP/Cyanine5.5 anti-mouse CD24, Brilliant Violet 421™ anti-mouse CD24, Brilliant Violet 605™ anti-mouse CD24, Purified anti-mouse CD24 (Maxpar® Ready), PE/Dazzle™ 594 anti-mouse CD24, Alexa Fluor® 700 anti-mouse CD24, APC/Fire™ 750 anti-mouse CD24, TotalSeq™-A0212 anti-mouse CD24, TotalSeq™-C0212 anti-mouse CD24, TotalSeq™-B0212 anti-mouse CD24, Ultra-LEAF™ Purified anti-mouse CD24, APC/Cyanine7 anti-mouse CD24 Antibody

Product Data



C57BL/6 mouse splenocytes stained with M1/69 Alexa Fluor® 488

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