

Purified anti-mouse CD24 (Maxpar[®] Ready) Antibody

Catalog# / Size	101829 / 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 and EDTA.
Preparation	The antibody was purified by affinity chromatography.
Concentration	1.0 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C.
Application	FC - Quality tested CyTOF[®] - Verified
Recommended Usage	This product is suitable for use with the Maxpar[®] Metal Labeling Kits . For metal labeling using Maxpar [®] Ready antibodies, proceed directly to the step to Partially Reduce the Antibody by adding 100 µl of Maxpar [®] Ready antibody to 100 µl of 4 mM TCEP-R in a 50 kDa filter and continue with the protocol. Always refer to the latest version of Maxpar [®] User Guide when conjugating Maxpar [®] Ready antibodies.
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).
Additional Product Notes	Maxpar [®] is a registered trademark of Standard BioTools Inc.
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) 6. Chappaz S, <i>et al.</i> 2007. <i>Blood</i> doi:10.1182/blood-2007-02-074245. (FC) PubMed 7. Rucci F, <i>et al.</i> 2010. <i>Proc Natl Acad Sci USA.</i> 107:3024. (FC) PubMed 8. Teague TK, <i>et al.</i> 2010. <i>Int Immunol.</i> 22:387. (FC) PubMed 9. Gracz AD, <i>et al.</i> 2010. <i>Am J. Physiol Gastrointest Liver Physiol.</i> 298:590. (FC) PubMed 10. Chen CY, <i>et al.</i> 2008. <i>Endocrinology.</i> 10:1210. (FC, IHC) PubMed 11. Qui Q, <i>et al.</i> 2010. <i>J. Immunol.</i> 184:1681. (FC) PubMed
(PubMed link indicates BioLegend citation)	

Product Citations

1. Wei SC, *et al.* 2019. *Immunity*. 50:1084. [PubMed](#)
2. Janela B, *et al.* 2019. *Immunity*. 50:1069. [PubMed](#)
3. Jordan S, *et al.* 2020. *Cell*. 178(5):1102-1114.e17.. [PubMed](#)

RRID AB_2563732 (BioLegend Cat. No. 101829)

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

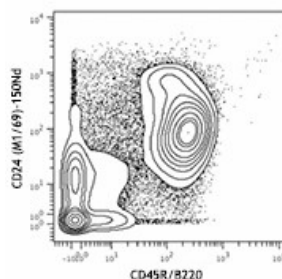
Related Protocols

[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 176Yb-anti-CD45R/B220 (RA36B2) and 150Nd-anti-CD24 (M1/69). Data provided by DVS Sciences.

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