

## Brilliant Violet 650™ anti-mouse CD24 Antibody

<b>Catalog# / Size</b>	101857 / 50 µg
<b>Clone</b>	M1/69
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Heat Stable Antigen (HSA), Ly-52, Nectadrin
<b>Isotype</b>	Rat IgG2b, κ
<b>Description</b>	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

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<b>Verified Reactivity</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	C57BL/10 mouse splenic T cells and concanavalin A-activated splenocytes
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650™ under optimal conditions.
<b>Concentration</b>	0.2 mg/mL
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	<p>Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a>. For flow cytometric staining, the suggested use of this reagent is ≤ 0.125 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.</p> <p>Brilliant Violet 650™ excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel. Refer to your instrument manual or manufacturer for support. Brilliant Violet 650™ is a trademark of Sirigen Group Ltd.</p> <p><a href="#">Learn more about Brilliant Violet™.</a></p> <p>This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.</p>
<b>Excitation Laser</b>	Violet Laser (405 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: Western blotting <sup>1</sup> , <i>in vitro</i> induction of thymocyte maturation <sup>2</sup> , complement-mediated cytotoxicity <sup>3</sup> , and immunohistochemistry of acetone-fixed frozen sections <sup>4</sup> , formalin-fixed paraffin-embedded

sections<sup>5</sup> and zinc-fixed paraffin-embedded sections<sup>10</sup>. 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

(PubMed link indicates BioLegend citation)

1. Springer T, *et al.* 1978. *Eur. J. Immunol.* 8:539. (WB)
2. Crowley M, *et al.* 1989. *Cell. Immunol.* 118:108. (FA)
3. Veillette A, *et al.* 1989. *J. Exp. Med.* 170:1671. (FA)
4. Pandelakis A Flavell RA 1999 *JEM* 189:855 (FC, IHC)
5. Liu JQ, *et al.* 2007 *J. Immunol.* 178:6227. (FC, IF)
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](#)

RRID AB\_3698891 (BioLegend Cat. No. 101857)

## Antigen Details

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

## Related Protocols

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- [Cell Surface Flow Cytometry Staining Protocol](#)

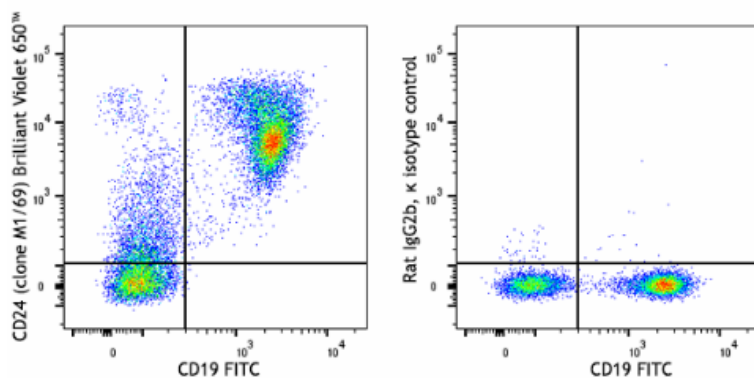
## Other Formats

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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, Brilliant Violet 711™ anti-mouse CD24, Brilliant Violet 650™ anti-mouse CD24 Antibody

## Product Data

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C57BL/6 mouse splenocytes were stained with anti-mouse CD19 (clone 6D5) FITC and anti-mouse CD24 (clone M1/69) Brilliant Violet 650™ (left) or rat IgG2b, κ Brilliant Violet 650™ isotype control (right).

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