

## Spark PLUS UV395™ anti-mouse CD24 Antibody

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog# / Size</b>   | 101855 / 25 µg<br>101856 / 100 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

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Preparation</b>            | The antibody was purified by affinity chromatography and conjugated with Spark PLUS UV395™ 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>      | 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 ≤ 0.25 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.<br><br>* Spark PLUS UV395™ has a maximum excitation of 355 nm and a maximum emission of 385 nm.                                                                                                                            |
| <b>Excitation Laser</b>       | Ultraviolet Laser (355 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\_3720488 (BioLegend Cat. No. 101855)  
AB\_3720488 (BioLegend Cat. No. 101856)

## 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"><li>1. Barclay A, <i>et al.</i> 1997. The Leukocyte Antigen FactsBook 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> |
| Gene ID            | <a href="#">12484</a>                                                                                                                                                                                                                                                                                                                    |

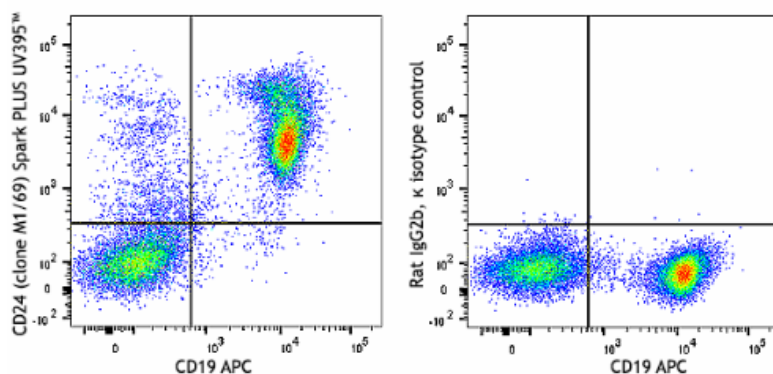
## Related Protocols

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

## Other Formats

APC/Cyanine7 anti-mouse CD24 Antibody, Brilliant Violet 711™ anti-mouse CD24, Purified anti-mouse CD24 (Maxpar® Ready), Alexa Fluor® 594 anti-mouse CD24, PE/Dazzle™ 594 anti-mouse CD24, Alexa Fluor® 700 anti-mouse CD24, APC/Fire™ 750 anti-mouse CD24, Brilliant Violet 421™ anti-mouse CD24, Spark PLUS UV395™ anti-mouse CD24 Antibody, PE/Cyanine5 anti-mouse CD24, APC anti-mouse CD24, Alexa Fluor® 488 anti-mouse CD24, Alexa Fluor® 647 anti-mouse CD24, PE anti-mouse CD24, Biotin anti-mouse CD24, FITC anti-mouse CD24, TotalSeq™-B0212 anti-mouse CD24, Ultra-LEAF™ Purified anti-mouse CD24, Purified anti-mouse CD24, TotalSeq™-C0212 anti-mouse CD24, PerCP/Cyanine5.5 anti-mouse CD24, Brilliant Violet 605™ anti-mouse CD24, Brilliant Violet 510™ anti-mouse CD24, Brilliant Violet 650™ anti-mouse CD24 Antibody, Pacific Blue™ anti-mouse CD24, PE/Cyanine7 anti-mouse CD24, TotalSeq™-A0212 anti-mouse CD24

## Product Data



C57BL/6 splenocytes were stained with anti-mouse CD19 (clone 6D5) APC and anti-mouse CD24 (clone M1/69) Spark PLUS UV395™ (left) or rat IgG2b, κ Spark PLUS UV395™ isotype control (right).

For Research Use Only. Not for diagnostic or therapeutic use.

This product is supplied subject to the terms and conditions, including the limited license, located at [www.biolegend.com/terms](http://www.biolegend.com/terms) ("Terms") and may be used only as provided in the Terms. Without limiting the foregoing, BioLegend products may not be used for any Commercial Purpose as defined in the Terms, resold in any form, used in manufacturing, or reverse engineered, sequenced, or otherwise studied or used to learn its design or composition without express written approval of BioLegend. Regardless of the information given in this document, user is solely responsible for determining any license requirements necessary for user's intended use and assumes all risk and liability arising from use of the product. BioLegend is not responsible for patent infringement or any other risks or liabilities whatsoever resulting from the use of its products.

BioLegend, the BioLegend logo, and all other trademarks are property of BioLegend, Inc. or their respective owners, and all rights are reserved.

8999 BioLegend Way, San Diego, CA 92121 [www.biolegend.com](http://www.biolegend.com)  
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587