

## PE anti-human CD24 Antibody

<b>Catalog# / Size</b>	311105 / 25 tests 311106 / 100 tests
<b>Clone</b>	ML5
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	V CD24.5
<b>Other Names</b>	Ly-52, Heat Stable Antigen (HSA), Nectadrin, BA-1
<b>Isotype</b>	Mouse IgG2a, κ
<b>Description</b>	CD24 is a 35-45 kD glycosylphosphatidylinositol (GPI)-linked protein also known as heat stable antigen (HSA), BA-1, Ly-52, and nectadrin. It is expressed on the surface of B cells (but not plasma cells), granulocytes, follicular dendritic cells, and epithelial cells. CD24 may play a role in the regulation of B-cell proliferation and maturation. CD24 crosslinking induces a Ca <sup>2+</sup> flux in mature B cells. CD24 has been shown to interact with CD62P (P-selectin).

### Product Details

<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	Chimpanzee
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<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 PE under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<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 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	Additional reported applications (for the relevant formats) include: immunofluorescence microscopy <sup>3</sup> .
<b>Application References</b> (PubMed link indicates BioLegend citation)	<ol style="list-style-type: none"> <li>Schlossman S, <i>et al.</i> Eds. 1995. Leukocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York.</li> <li>McMichael A, <i>et al.</i> 1987. Leucocyte Typing III. Oxford University Press. New York.</li> <li>Yang GP, <i>et al.</i> 1999. <i>Nucleic Acids Research</i> 27:1517. (IF)</li> <li>Kristiansen G, <i>et al.</i> 2003. <i>Clin. Cancer Res.</i> 9:4906. (FC)</li> </ol>
<b>Product Citations</b>	<ol style="list-style-type: none"> <li>Fu J <i>et al.</i> 2019. Cell stem cell. 24(2):227-239 . <a href="#">PubMed</a></li> <li>Manukyan G, <i>et al.</i> 2020. Auto Immun Highlights. 11:5. <a href="#">PubMed</a></li> <li>Ibrahim EH, <i>et al.</i> 2021. Immun Inflamm Dis. 9:1252. <a href="#">PubMed</a></li> <li>Hao J <i>et al.</i> 2018. Cell metabolism. 28(5):689-705 . <a href="#">PubMed</a></li> <li>Vaziri N, <i>et al.</i> 2021. Life (Basel). 11: <a href="#">PubMed</a></li> <li>Glinka Y, <i>et al.</i> 2012. Biochem Biophys Res Commun. 425:775. <a href="#">PubMed</a></li> </ol>

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**RRID** AB\_314854 (BioLegend Cat. No. 311105)  
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## Antigen Details

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<b>Structure</b>	GPI-linked glycoprotein, 35-45 kD
<b>Distribution</b>	B cells, granulocytes, epithelial cells
<b>Function</b>	B cell proliferation and differentiation
<b>Ligand/Receptor</b>	CD62P (P-Selectin)
<b>Cell Type</b>	B cells, Epithelial cells, Granulocytes
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	1. Schlossman S, <i>et al.</i> Eds. 1995. Leukocyte Typing V. Oxford University Press. New York.
<b>Gene ID</b>	<a href="#">100133941</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

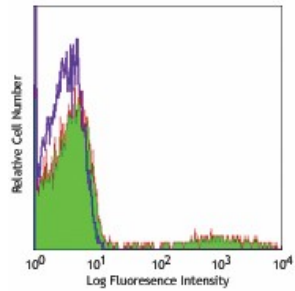
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FITC anti-human CD24, PE anti-human CD24, Purified anti-human CD24, Alexa Fluor® 488 anti-human CD24, Alexa Fluor® 647 anti-human CD24, PerCP/Cyanine5.5 anti-human CD24, APC anti-human CD24, PE/Cyanine7 anti-human CD24, Brilliant Violet 421™ anti-human CD24, Brilliant Violet 605™ anti-human CD24, PerCP anti-human CD24, Brilliant Violet 510™ anti-human CD24, Purified anti-human CD24 (Maxpar® Ready), Biotin anti-human CD24, APC/Cyanine7 anti-human CD24, PE/Dazzle™ 594 anti-human CD24, Brilliant Violet 711™ anti-human CD24, TotalSeq™-A0180 anti-human CD24, APC/Fire™ 750 anti-human CD24, Brilliant Violet 785™ anti-human CD24, TotalSeq™-C0180 anti-human CD24, TotalSeq™-B0180 anti-human CD24, PE/Cyanine5 anti-human CD24, TotalSeq™-D0180 anti-human CD24, GMP PE anti-human CD24

## Product Data

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Human peripheral blood lymphocytes  
stained ML5 PE



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