

## PE/Cyanine5 anti-human CD5 Antibody

<b>Catalog# / Size</b>	364031 / 25 tests 364032 / 100 tests
<b>Clone</b>	L17F12
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	II T7
<b>Other Names</b>	Leu-1, Ly-1, T1, Tp67, Leu1
<b>Isotype</b>	Mouse IgG2a, κ
<b>Description</b>	CD5, also known as Leu-1, Ly-1 and T1, is a 67 kD single chain type I glycoprotein that is a member of the scavenger receptor superfamily. CD5 is expressed on T cells, thymocytes, B cell subsets, chronic B lymphocytic leukemia (B-CLL), and peripheral blood dendritic cells. CD5 modulates T and B cell receptor signaling, thymocyte maturation, and T-B cell interactions. One of its ligands is CD72.

### Product Details

<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Human T-acute lymphoblastic leukemia (ALL) cells
<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/Cyanine5 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. It is recommended that the reagent be titrated for optimal performance for each application.
<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): immunoprecipitation <sup>1,3,4</sup> and immunohistochemical staining of frozen and formalin-fixed paraffin-embedded sections <sup>2,3,5</sup> .
<b>Application References</b>	<ol style="list-style-type: none"> <li>1. McAlister MS, <i>et al.</i> 1998. <i>Protein Eng.</i> 11:847. (IP)</li> <li>2. Butmarc JR, <i>et al.</i> 1998. <i>Am. J. Clin. Pathol.</i> 109:682. (IHC)</li> <li>3. Engleman EG, <i>et al.</i> 1981. <i>Proc. Natl. Acad. Sci. USA</i> 78:1791. (IHC, IP)</li> <li>4. Ledbetter JA, <i>et al.</i> 1981. <i>J. Exp. Med.</i> 153:310. (FC, IP)</li> <li>5. Warnke R and Levy R. 1980. <i>J. Histochem. Cytochem.</i> 28:771. (IHC)</li> </ol>
<b>RRID</b>	AB_2894493 (BioLegend Cat. No. 364031) AB_2894493 (BioLegend Cat. No. 364032)

## Antigen Details

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<b>Structure</b>	Scavenger receptor superfamily, 67 kD
<b>Distribution</b>	Thymocytes, T cells, and subsets of B and dendritic cells.
<b>Function</b>	Modulates TCR and BCR signaling, involved in thymocyte maturation and T-B cell interaction
<b>Ligand/Receptor</b>	CD72
<b>Cell Type</b>	B cells, Dendritic cells, T cells, Thymocytes
<b>Biology Area</b>	Costimulatory Molecules, Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	1. Kipps T. 1989. <i>Adv. Immunol.</i> 47:117. 2. Resnick D, et al. 1994. <i>Trends Biochem. Sci.</i> 1:5. 3. Wood GS and Freudenthal PS. 1992. <i>Am. J. Pathol.</i> 141:789.
<b>Gene ID</b>	<a href="#">921</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

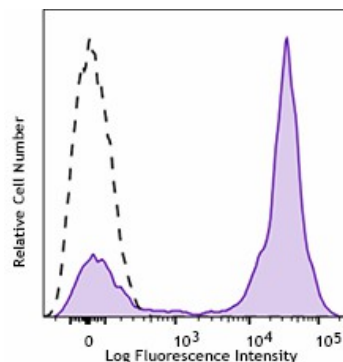
## Other Formats

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PE/Cyanine7 anti-human CD5, Purified anti-human CD5, Biotin anti-human CD5, PerCP/Cyanine5.5 anti-human CD5, APC/Cyanine7 anti-human CD5, PE/Dazzle™ 594 anti-human CD5, PE anti-human CD5, Brilliant Violet 510™ anti-human CD5, APC anti-human CD5, Brilliant Violet 605™ anti-human CD5, FITC anti-human CD5, Pacific Blue™ anti-human CD5, Alexa Fluor® 700 anti-human CD5, APC/Fire™ 750 anti-human CD5, Brilliant Violet 421™ anti-human CD5, PE/Cyanine5 anti-human CD5

## Product Data

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Human peripheral blood lymphocytes were stained with anti-human CD5 (clone L17F12) PE/Cyanine5 (filled histogram) or mouse IgG2a,  $\kappa$  isotype control (open histogram).

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