

GMP PE anti-human CD5 Antibody

Catalog# / Size	260256 / 100 tests
Clone	L17F12
Workshop	II T7
Other Names	Leu-1, Ly-1, T1, Tp67, Leu1
Isotype	Mouse IgG2a, κ
Description	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

Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human T-acute lymphoblastic leukemia (ALL) cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	100 µg/mL
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	FC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . 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.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported applications (for the relevant formats): immunoprecipitation ^{1,3,4} and immunohistochemical staining of frozen and formalin-fixed paraffin-embedded sections ^{2,3,5} .
Application References	<ol style="list-style-type: none"> McAlister MS, <i>et al.</i> 1998. <i>Protein Eng.</i> 11:847. (IP) Butmarc JR, <i>et al.</i> 1998. <i>Am. J. Clin. Pathol.</i> 109:682. (IHC) Engleman EG, <i>et al.</i> 1981. <i>Proc. Natl. Acad. Sci. USA</i> 78:1791. (IHC, IP) Ledbetter JA, <i>et al.</i> 1981. <i>J. Exp. Med.</i> 153:310. (FC, IP) Warnke R and Levy R. 1980. <i>J. Histochem. Cytochem.</i> 28:771. (IHC)
(PubMed link indicates BioLegend citation)	

Disclaimer	<p>GMP RUO Flow Cytometry Antibodies. BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include:</p> <ul style="list-style-type: none"> • Batch-to-batch consistency • Material traceability • Documented procedures • Documented employee training • Equipment maintenance and monitoring records
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- Lot-specific certificates of analysis
- Quality audits per ISO 13485:2016
- QA review of released products

Antigen Details

Structure	Scavenger receptor superfamily, 67 kD
Distribution	Thymocytes, T cells, and subsets of B and dendritic cells.
Function	Modulates TCR and BCR signaling, involved in thymocyte maturation and T-B cell interaction
Ligand/Receptor	CD72
Cell Type	B cells, Dendritic cells, T cells, Thymocytes
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	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.
Gene ID	921

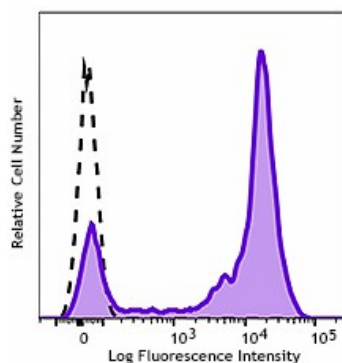
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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



Typical results from human peripheral blood lymphocytes stained either with L17F12 PE used at 5 μ L/test (filled histogram) or with an isotype control (open histogram).

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