

GMP APC anti-human CD5 Antibody

Catalog# / Size	260254 / 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 APC under optimal conditions.
Concentration	50 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	Red Laser (633 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">1. McAlister MS, <i>et al.</i> 1998. <i>Protein Eng.</i> 11:847. (IP)2. Butmarc JR, <i>et al.</i> 1998. <i>Am. J. Clin. Pathol.</i> 109:682. (IHC)3. Engleman EG, <i>et al.</i> 1981. <i>Proc. Natl. Acad. Sci. USA</i> 78:1791. (IHC, IP)4. Ledbetter JA, <i>et al.</i> 1981. <i>J. Exp. Med.</i> 153:310. (FC, IP)5. Warnke R and Levy R. 1980. <i>J. Histochem. Cytochem.</i> 28:771. (IHC)
(PubMed link indicates BioLegend citation)	
Disclaimer	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: <ul style="list-style-type: none">• Batch-to-batch consistency• Material traceability• Documented procedures• Documented employee training• Equipment maintenance and monitoring records• 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	<ol style="list-style-type: none"> 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

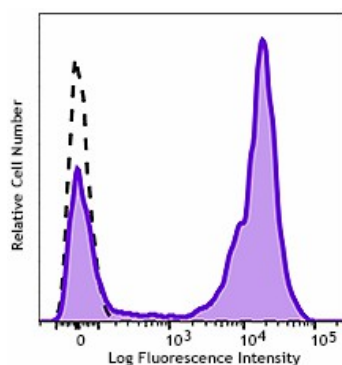
Related Protocols

[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 APC used at 5 µL/test (filled histogram) or with an isotype control (open histogram).

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