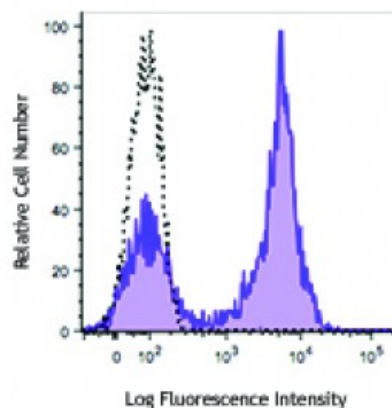


Pacific Blue™ anti-human CD5

Catalog # / Size:	2420115 / 25 tests 2420120 / 100 tests
Clone:	L17F12
Isotype:	Mouse IgG2a, κ
Immunogen:	Human T-acute lymphoblastic leukemia (ALL) cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Workshop Number:	III 518
Concentration:	Lot-specific



Human peripheral blood lymphocytes were stained with CD5 (clone L17F12) Pacific Blue™ (filled histogram) or mouse IgG2a, κ Pacific Blue™ isotype control (open histogram).

Applications:

Applications: Flow Cytometry

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 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

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:

1. McAlister MS, *et al.* 1998. *Protein Eng.* 11:847. (IP)
2. Butmarc JR, *et al.* 1998. *Am. J. Clin. Pathol.* 109:682. (IHC)
3. Engleman EG, *et al.* 1981. *Proc. Natl. Acad. Sci. USA* 78:1791. (IHC, IP)
4. Ledbetter JA, *et al.* 1981. *J. Exp. Med.* 153:310. (FC, IP)
5. Warnke R and Levy R. 1980. *J. Histochem. Cytochem.* 28:771. (IHC)

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-Cells), 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.

Antigen References:

1. Kipps T. 1989. *Adv. Immunol.* 47:117.
2. Resnick D, *et al.* 1994. *Trends Biochem. Sci.* 1:5.
3. Wood GS and Freudenthal PS. 1992. *Am. J. Pathol.* 141:789.

