

Biotin anti-human CD5

Catalog # / Size: 2420020 / 100 µg
2420015 / 25 µg

Clone: L17F12

Isotype: Mouse IgG2a, κ

Immunogen: Human T-acute lymphoblastic leukemia (ALL) cells

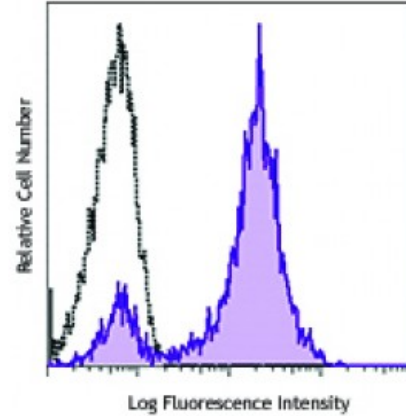
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: III 518

Concentration: 0.5



Human peripheral blood lymphocytes were stained with biotinylated CD5 (clone L17F12, filled histogram) or biotinylated mouse IgG2a, κ isotype control (open histogram), followed by streptavidin FITC.

Applications:

Applications: Other

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 ≤0.06 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

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.