

**APC/Fire™ 750 anti-human CD5**

**Catalog # /** 2420140 / 100 tests  
**Size:** 2420135 / 25 tests

**Clone:** L17F12

**Isotype:** Mouse IgG2a, κ

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

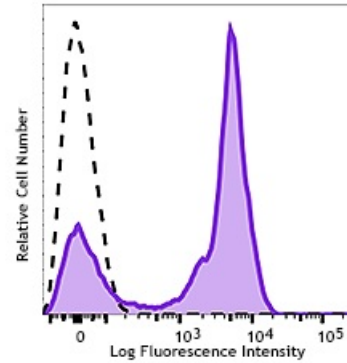
**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Workshop Number:** II T7

**Concentration:** Lot-specific



Human peripheral blood lymphocytes were stained with APC/Fire™ 750 CD5 (clone L17F12, filled histogram) or APC/Fire™ 750 mouse IgG2a, κ isotype control (open histogram).

**Applications:**

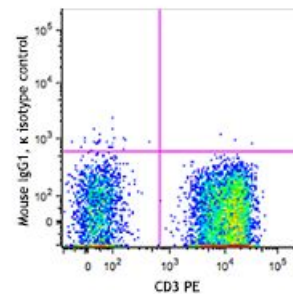
**Applications:** Flow Cytometry

**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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

\* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

**Application Notes:** 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>.

- 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.