

**PE/Dazzle™ 594 anti-human CD70**

**Catalog # / Size:** 2375615 / 25 tests  
2375620 / 100 tests

**Clone:** 113-16

**Isotype:** Mouse IgG1

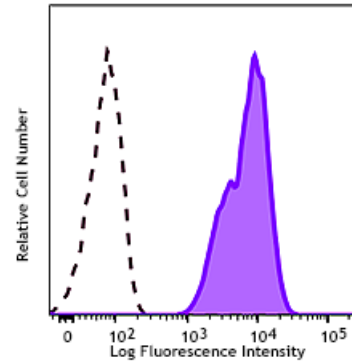
**Immunogen:** CD70-transfected L cells

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.

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

**Concentration:** Lot-specific



Human myeloma cell line, U266, was stained with CD70 (clone 113-16) PE/Dazzle™ 594 (filled histogram) or mouse IgG1, κ PE/Dazzle™ 594 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.

\* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

**Application Notes:** Additional reported applications for the relevant formats include: blocking of plasmacytoid dendritic cell induced B cell proliferation and Ig secretion<sup>1</sup>.

**Application References:** 1. Shaw J, *et al.* 2010. *Blood* 115:3051. (Block)

**Description:** CD70, also known as CD27L, is a 50 kD type II transmembrane glycoprotein and member of the tumor necrosis factor superfamily. CD70 is expressed on activated T, B and NK cells, activated plasmacytoid dendritic cells (pDCs), and chronic B cell lymphocytic leukemia and large B cell lymphomas. CD70 costimulates T cell proliferation and differentiation. It plays a role in the pDC-induced B cell differentiation. The ligand of CD70 is CD27.

**Antigen References:** 1. Bowman MR, *et al.* 1994. *J. Immunol.* 152:1756.  
2. Shaw J, *et al.* 2010. *Blood* 115:3051.  
3. Keller AM, *et al.* 2009. *Blood* 113:5167.