

**PerCP/Cyanine5.5 anti-mouse CD70**

**Catalog # / Size:** 1123070 / 100 µg  
1123065 / 25 µg

**Clone:** FR70

**Isotype:** Rat IgG2b, κ

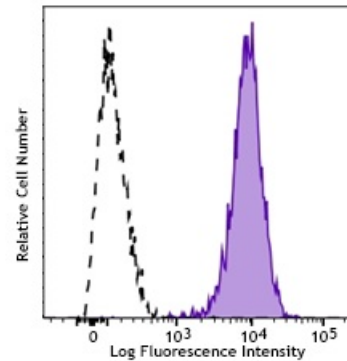
**Immunogen:** BALB/c mouse B lymphoma A20.2J

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated antibody.

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

**Concentration:** 0.2 mg/ml



B cell lymphoma cell line, A20, was stained with CD70 (clone FR70) PerCP/Cyanine5.5 (filled histogram) or rat IgG2b, κ isotype PerCP/Cyanine5.5 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 ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

\* PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>1</sup>, *in vitro* blocking of CD70-CD27 binding and inhibition of T and NK cell responses<sup>1-3</sup>, and immunohistochemistry<sup>4</sup> of acetone-fixed frozen sections. For the most successful immunofluorescent staining results, it may be necessary to maximize signal over background by using a relatively bright fluorochrome-antibody conjugate (Cat. No. 1123025/1123030). To reduce non-specific binding to cells bearing Fc-receptors, pre-incubation of cells with anti-mouse CD16/CD32, clone 93 (Cat. No. 1106505/1106510), is recommended prior to immunofluorescent staining.

**Application References:** 1. Barclay AN, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.  
2. Tesselaar K, *et al.* 1997. *J. Immunol.* 159:4959.  
3. Akiba H, *et al.* 1999. *J. Immunol.* 162:7058.

**Description:** CD70 is a type II transmembrane protein. It is a member of the TNF superfamily, expressed on activated B cells, activated dendritic cells, and some activated T cells (low levels). CD70 interacts with CD27 to promote T-B cell cross-stimulation and co-stimulate B cell proliferation and immunoglobulin production. Cells expressing CD70 can co-stimulate T cell proliferation and enhance the production of cytokines. The FR70 antibody blocks CD70 binding to CD27.

**Antigen References:**

1. Barclay AN, *et al.* 1997. *The Leukocyte Antigen FactsBook* Academic Press.
2. Tesselaar K, *et al.* 1997. *J. Immunol.* 159:4959.
3. Akiba H, *et al.* 1999. *J. Immunol.* 162:7058.