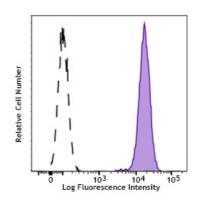
APC anti-mouse CD70

Catalog # / Size:	1123045 / 25 μg 1123050 / 100 μg
Clone:	FR70
lsotype:	Rat IgG2b, к
Immunogen:	BALB/c mouse B lymphoma A20.2J
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC 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) APC (filled histogram) or rat IgG2b, κ isotype APC control (open histogram).

Applications:

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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 $\leq 0.25 \ \mu$ g per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Additional reported applications (for the relevant formats) include: immunoprecipitation ¹ , <i>in vitro</i> blocking of CD70-CD27 binding and inhibition of T and NK cell responses ¹⁻³ , and immunohistochemistry ⁴ of aceton-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) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated antibody or biotinylated anti-rat IgG second step, followed by SAv-PE (Cat. No. 2626020)). 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, <i>et al.</i> 1997. The Leukocyte Antigen FactsBook Academic Press. 2. Tesselaar K, <i>et al.</i> 1997. <i>J. Immunol.</i> 159:4959. 3. Akiba H, <i>et al.</i> 1999. <i>J. Immunol.</i> 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.

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Tesselaar K, et al. 1997. J. Immunol. 159:4959.
Akiba H, et al. 1999. J. Immunol. 162:7058.

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