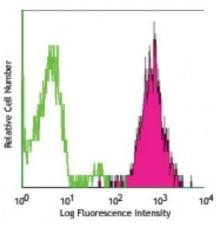
Product Data Sheet

PE anti-mouse CD70

Catalog # / Size:	1123030 / 200 μg 1123025 / 50 μg
Clone:	FR70
Isotype:	Rat IgG2b, к
Immunogen:	BALB/c mouse B lymphoma A20.2J
Reactivity:	Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.2



Mouse B cell line A20 stained with FR70 PE

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 \leq 1.0 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) include: immunoprecipitation1, <i>in vitro</i> blocking of CD70-CD27 binding and inhibition of T and NK cell responses ¹⁻³ , and immunohistochemistry4 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. 104605/104606) or by using a high sensitivity, three-layer staining technique (e.g., including a biotinylated antibody (Cat. No. 104604) or biotinylated anti-rat IgG (Cat. No. 405402) second step, followed by SAv-PE (Cat. No. 405204)). To reduce non-specific binding to cells bearing Fc-receptors, pre-incubation of cells with anti-mouse CD16/CD32, clone 93 (Cat. No. 101301/101302), is recommended prior to immunofluorescent staining. The LEAF [™] purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 104608).
Application References:	 Oshima H, <i>et al.</i> 1998. <i>Int. Immunol.</i> 10:517. (Block IP) Akiba HH, <i>et al.</i> 1999. <i>J. Immunol.</i> 162:7058. (Block) Takeda K, <i>et al.</i> 2000. <i>J. Immunol.</i> 164:1741. (Block) Henke A, <i>et al.</i> 2000. <i>J. Virol.</i> 74:4284. (IHC) Brown SL, <i>et al.</i> 2007. <i>J. Clin. Invest.</i> 117:258.
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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 Barclay AN, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
 Tesselaar K, *et al.* 1997. *J. Immunol.* 159:4959.
 Akiba H, *et al.* 1999. *J. Immunol.* 162:7058. Antigen **References:**