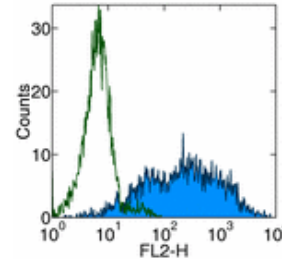


## Product Information

Contents: Phycoerythrin (PE) anti-mouse CD70  
Catalog Number: 12-0701  
Sizes: 50 ug, 100 ug, 200 ug  
Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>  
Storage Conditions: Store at 4°C.  
DO NOT FREEZE.  
LIGHT-SENSITIVE MATERIAL.  
Clone: FR70  
Isotype: Rat IgG2b, κ



Surface staining of LPS + CD40 stimulated mouse splenocytes with anti-mouse CD70 (FR70) PE. Autofluorescence is shown via open histogram. Total viable cells were used for analysis.

### Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
12-0701	PE anti-mouse CD70	488	575	FC
13-0701	Biotin anti-mouse CD70	N/A	N/A	FC
14-0701	Affinity Purified anti-mouse CD70	N/A	N/A	FA FC IP
16-0701	Functional Grade* Purified anti-mouse CD70	N/A	N/A	FC

\*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg.  
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

### Description

The FR70 monoclonal antibody reacts with mouse CD70, a 30-33 kDa type II transmembrane glycoprotein. CD70 is a member of the TNF family and is expressed by activated mouse T and B lymphocytes. Interaction of CD70 with CD27, its ligand on T cells, is important in T-B cell crosstalk and plays a role in costimulation and immune regulation.

### Usage

For research use only, not for diagnostic or therapeutic use.

### Applications Tested

The FR70 antibody has been tested by flow cytometric analysis of mouse LPS-activated splenocyte suspensions. This can be used at less than or equal to 1 μg per million cells in a 100 μl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### Related Products

Cat. 13-0701 Biotin anti-mouse CD70 (clone FR70)  
Cat. 14-0701 Affinity Purified anti-mouse CD70 (clone FR70)  
Cat. 16-0701 Functional Grade Purified anti-mouse CD70 (clone FR70)  
Cat. 12-4031 Phycoerythrin (PE) Rat IgG2b Isotype Control (clone eB149/10H5)

### References

Oshima, H., H. Nakano, et al. (1998). "Characterization of murine CD70 by molecular cloning and mAb." *Int Immunol* 10(4): 517-26.

Akiba, H., H. Oshima, et al. (1999). "CD28-independent costimulation of T cells by OX40 ligand and CD70 on activated B cells." J Immunol 162(12): 7058-66.

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