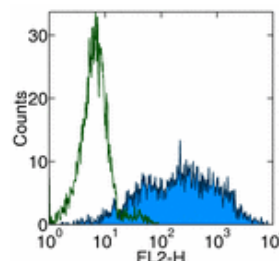


## Product Information

Contents: Affinity Purified anti-mouse CD70  
Catalog Number: 14-0701  
Sizes: 50 ug, 100 ug, 500 ug  
Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>  
Storage Conditions: Store at 4°C.  
Avoid repeated freeze/thaw cycles.  
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. The FR70 antibody has been reported for use in flow cytometric analysis, and immunoprecipitation. FR70 has also been reported in blocking of CD70 *in vitro*. (Please use Functional Grade purified FR70, cat. 16-0701, in functional assays.)

## 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 0.5 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. 12-0701 PE anti-mouse CD70 (clone FR70)  
Cat. 13-0701 Biotin anti-mouse CD70 (clone FR70)  
Cat. 16-0701 Functional Grade Purified anti-mouse CD70 (clone FR70)  
Cat. 14-4031 Purified Rat IgG2b Isotype Control (clone eB149/10H5)  
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)  
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)  
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)  
Cat. 11-4811 FITC Anti-Rat IgG  
Cat. 13-4813 Biotin Anti-Rat IgG (clone Polyclonal)

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References

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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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