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**Anti-Mouse CD70
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL8870AP	Purified	250 µg	1.0 mg/ml	CLCR2A00
CL8870B	Biotin	100 µg	0.1 mg/ml	CLCR2A15
CL8870F	FITC	100 µg	0.1 mg/ml	CLCR2A01
CL8870PE	PE	50 µg	0.1 mg/ml	CLCR2A04

Isotype: Rat IgG2a

DESCRIPTION:

CD70 is a cytokine that belongs to the tumour necrosis factor (TNF) ligand family. This cytokine is a ligand for TNFRSF27/CD27. It is a surface antigen on activated, but not on resting, T and B lymphocytes. It induces proliferation of co-stimulated T cells, enhances the generation of cytolytic T cells, and contributes to T cell activation. This cytokine is also reported to play a role in regulating B-cell activation, cytotoxic function of natural killer cells, and immunoglobulin synthesis.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

Biotin, FITC, and PE: Biotin/FITC/PE conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

For all formats, store at + 4°C. DO NOT FREEZE **PE** conjugates. For long term storage (**Purified/Biotin/FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles. For Maximal recovery of contents, please quick-spin vial before opening.

APPLICATION:

This antibody is suitable for use in ELISA, Flow Cytometry and Immunofluorescence. Additionally, this antibody is a non-depleting mAb that has been shown to block CD70-CD27 interactions *in vivo*.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

Continued Overleaf.....

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SPECIFICATIONS:

Clone: TAN 1-7

Hybridoma Production:

Immunization: Immunogen: Recombinant mouse CD70 (extracellular domain, aa residues 41-195).
Donor: Rat spleen

Fusion Partner: NS0

Specificity: Mouse CD70

REFERENCES:

1. Rowley TF, Al-Shamkhani A. (2004) Stimulation by soluble CD70 promotes strong primary and secondary CD8+ cytotoxic T cell responses in vivo. *J Immunol.* 172(10):6039-46.
2. Taraban VY, et al. (2008) Invariant NKT cells promote CD8+ cytotoxic T cell responses by inducing CD70 expression on dendritic cells. *J Immunol.* 180(7):4615-20.
3. Arora P, et al. (2014) A single subset of dendritic cells controls the cytokine bias of natural killer T cell responses to diverse glycolipid antigens. *Immunity.* 40(1):105-16.

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