

Biotin anti-human CD70 Antibody

Catalog# / Size	355114 / 100 µg
Clone	113-16
Regulatory Status	RUO
Other Names	CD27 ligand, CD27L, Ki-24 antigen, Tumor necrosis factor ligand superfamily, member 7 (TNFSF7)
Isotype	Mouse IgG1, κ
Description	CD70, also known as CD27L, is a 50 kD type II transmembrane glycoprotein and member of the tumor necrosis factor superfamily. CD70 is expressed on activated T, B and NK cells, activated plasmacytoid dendritic cells (pDCs), and chronic B cell lymphocytic leukemia and large B cell lymphomas. CD70 costimulates T cell proliferation and differentiation. It plays a role in the pDC-induced B cell differentiation. The ligand of CD70 is CD27.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	CD70-transfected L cells
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. Do not freeze.
Application	FC - Quality tested
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 ≤0.25 µg per million cells in 100 µl 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: blocking of plasmacytoid dendritic cell induced B cell proliferation and Ig secretion ¹ .
Application References	1. Shaw J, <i>et al.</i> 2010. <i>Blood</i> 115:3051. (Block)
RRID	AB_2687255 (BioLegend Cat. No. 355114)

Antigen Details

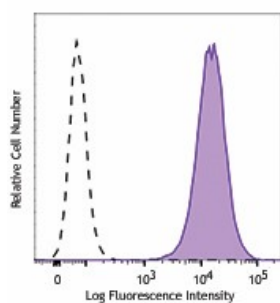
Structure	Type II transmembrane glycoprotein, member of the tumor necrosis factor superfamily, 50 kD
Distribution	Activated T cells and B cells, activated NK cells, activated plasmacytoid dendritic cells, some B cell lymphomas
Function	Role in T cell proliferation, generation of cytolytic and memory T cells, B cell proliferation and differentiation
Ligand/Receptor	CD27

Cell Type	B cells, Dendritic cells, NK cells, T cells
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Bowman MR, <i>et al.</i> 1994. <i>J. Immunol.</i> 152:1756. 2. Shaw J, <i>et al.</i> 2010. <i>Blood</i> 115:3051. 3. Keller AM, <i>et al.</i> 2009. <i>Blood</i> 113:5167.
Gene ID	970

Other Formats

Purified anti-human CD70, PE anti-human CD70, FITC anti-human CD70, PerCP/Cyanine5.5 anti-human CD70, APC anti-human CD70, Alexa Fluor® 647 anti-human CD70, PE/Cyanine7 anti-human CD70, Biotin anti-human CD70, TotalSeq™-A0027 anti-human CD70, TotalSeq™-C0027 anti-human CD70, APC/Fire™ 750 anti-human CD70, PE/Dazzle™ 594 anti-human CD70, TotalSeq™-B0027 anti-human CD70, TotalSeq™-D0027 anti-human CD70

Product Data



Human myeloma cell line, U266, was stained with biotinylated CD70 (Clone 113-16) (filled histogram) or biotinylated mouse IgG1, κ isotype control (open histogram), followed by Streptavidin PE.

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