

FITC anti-human CD70 Antibody

Catalog# / Size	355105 / 25 tests 355106 / 100 tests
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 and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with FITC under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. 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 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Blue Laser (488 nm)
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 (PubMed link indicates BioLegend citation)	1. Shaw J, <i>et al.</i> 2010. <i>Blood</i> 115:3051. (Block)
Product Citations	1. Perna F, <i>et al.</i> 2017. <i>Cancer Cell</i> . 32:506. PubMed
RRID	AB_2562278 (BioLegend Cat. No. 355105) AB_2562280 (BioLegend Cat. No. 355106)

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

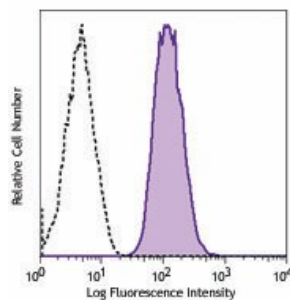
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

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 CD70 (clone 113-16) FITC (filled histogram) or mouse IgG1, κ FITC isotype control (open histogram).

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