

## PE/Cyanine7 anti-human CD70 Antibody

<b>Catalog# / Size</b>	355111 / 25 tests 355112 / 100 tests
<b>Clone</b>	113-16
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	CD27 ligand, CD27L, Ki-24 antigen, Tumor necrosis factor ligand superfamily, member 7 (TNFSF7)
<b>Isotype</b>	Mouse IgG1, $\kappa$
<b>Description</b>	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

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<b>Verified Reactivity</b>	Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	CD70-transfected L cells
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
<b>Concentration</b>	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our <a href="#">Concentration and Expiration Lookup</a> or <a href="#">Certificate of Analysis</a> online tools.)
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is 5 $\mu$ l per million cells in 100 $\mu$ l staining volume or 5 $\mu$ l per 100 $\mu$ l of whole blood.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Application Notes</b>	Additional reported applications for the relevant formats include: blocking of plasmacytoid dendritic cell induced B cell proliferation and Ig secretion <sup>1</sup> .
<b>Additional Product Notes</b>	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact <a href="#">Technical Service</a> if you have any questions.
<b>Application References</b>	1. Shaw J, <i>et al.</i> 2010. <i>Blood</i> 115:3051. (Block)
<b>RRID</b>	AB_2687253 (BioLegend Cat. No. 355111) AB_2687254 (BioLegend Cat. No. 355112)

### Antigen Details

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<b>Structure</b>	Type II transmembrane glycoprotein, member of the tumor necrosis factor superfamily, 50 kD
<b>Distribution</b>	Activated T cells and B cells, activated NK cells, activated plasmacytoid dendritic cells, some B cell lymphomas
<b>Function</b>	Role in T cell proliferation, generation of cytolytic and memory T cells, B cell proliferation and differentiation
<b>Ligand/Receptor</b>	CD27
<b>Cell Type</b>	B cells, Dendritic cells, NK cells, T cells
<b>Biology Area</b>	Costimulatory Molecules, Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	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.
<b>Gene ID</b>	<a href="#">970</a>

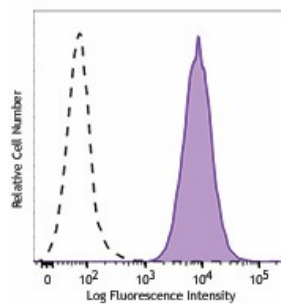
## Other Formats

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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

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Human myeloma cell line, U266, was stained with CD70 (clone 113-16) PE/Cyanine7 (filled histogram) or mouse IgG1, ? PE/Cyanine7 isotype control (open histogram).

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