

TotalSeq™-D0027 anti-human CD70 Antibody

Catalog# / Size	355127 / 10 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
Barcode Sequence	CGCGAACATAAGAAG
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 1 mM EDTA
Preparation	The antibody was purified by chromatography and conjugated with TotalSeq™-D oligomer 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	PG - Quality tested
Recommended Usage	<p>Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis and the oligomer sequence is confirmed by sequencing. TotalSeq™-D antibodies are compatible with Mission Bio's Tapestry Single-Cell Sequencing Platform for simultaneous detection of DNA and Protein.</p> <p>To maximize performance, it is strongly recommended that the reagent be titrated for each application, and that you centrifuge the antibody dilution before adding to the cells at 14,000xg at 2 - 8°C for 10 minutes. Carefully pipette out the liquid avoiding the bottom of the tube and add to the cell suspension. For Proteogenomics analysis, the suggested starting amount of this reagent for titration is ≤ 1.0 µg per million cells in 100 µL volume. Refer to the corresponding TotalSeq™ protocol for specific staining instructions.</p> <p>Buyer is solely responsible for determining whether Buyer has all intellectual property rights that are necessary for Buyer's intended uses of the BioLegend TotalSeq™ products. For example, for any technology platform Buyer uses with TotalSeq™, it is Buyer's sole responsibility to determine whether it has all necessary third party intellectual property rights to use that platform and TotalSeq™ with that platform.</p>
Application Notes	Additional reported applications for the relevant formats include: blocking of plasmacytoid dendritic cell induced B cell proliferation and Ig secretion ¹ .
Additional Product Notes	TotalSeq™-D reagents are designed to profile protein expression at single cell level. The Mission Bio Tapestry platform and sequencer (e.g. Illumina analyzers) are required. Please contact technical support for more information, or visit biolegend.com/totalseq/single-cell-dna

The barcode flanking sequences are CGAGATGACTACGCTACTCATGG (PCR handle), and GAGCCGATCTAGTATCTCAGT*C*G (capture sequence). * indicates a phosphorothioated bond, to prevent nuclease degradation.

View more applications data for this product in our [Application Technical Notes](#).

Application References

1. Shaw J, *et al.* 2010. *Blood* 115:3051. (Block)

RRID

AB_2922571 (BioLegend Cat. No. 355127)

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

[TotalSeq™-D with Mission Bio Tapestri® Single-Cell DNA + Protein 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

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