

## PE/Cyanine7 anti-human CD27 Antibody

<b>Catalog# / Size</b>	356411 / 25 tests 356412 / 100 tests
<b>Clone</b>	M-T271
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	V 5T CD27.03
<b>Other Names</b>	S152, T14, TNFRSF7
<b>Isotype</b>	Mouse IgG1, κ
<b>Description</b>	CD27 is a 50-55 kD type I membrane protein also known as S152 and T14. It is a lymphocyte-specific member of the TNF-receptor superfamily. CD27 is expressed on medullary thymocytes, virtually all mature T cells, some B cells, and NK cells. CD27 binds to CD70, and plays a role in costimulation of T cell activation and regulation of B cell differentiation and proliferation. The cytoplasmic domains of CD27 have also been shown to interact with TRAF2 and TRAF5 to elicit NF-κB and SAPK/JNK activation.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	Baboon, Cynomolgus, Rhesus
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Immunogen</b>	Human T cells from a T-ALL patient.
<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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl 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: immunohistochemical staining of formalin-fixed paraffin-embedded frozen tissue sections <sup>1</sup> , immunofluorescent staining <sup>2</sup> , and ELISA <sup>3</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. Ma S, <i>et al.</i> 2011. <i>J. Virol.</i> 85:165. (IHC) 2. Manzo A, <i>et al.</i> 2008. <i>Arthritis Rheum.</i> 11:3377. (IF) 3. Kato K, <i>et al.</i> 2007. <i>Exp. Hematol.</i> 35:434. (ELISA)
<b>(PubMed link indicates BioLegend citation)</b>	
<b>Product Citations</b>	1. Kerkman PF, Kempers AC 2016. <i>Ann Rheum Dis.</i> 75(12):2201-2207. <a href="#">PubMed</a>

2. Liu C, *et al.* 2021. *Cell*. 184(7):1836-1857.e22. [PubMed](#)
3. Ramaswamy A, *et al.* 2021. *Immunity*. 54(5):1083-1095.e7. [PubMed](#)
4. Muir L, *et al.* 2018. *Wellcome Open Res.* 2:97. [PubMed](#)
5. Abd Hamid M *et al.* 2019. *Cancer Immunol Res.* 7(8):1293-1306. [PubMed](#)
6. Kunishita Y, *et al.* 2020. *Front Immunol.* 11:98. [PubMed](#)
7. Hagan T, *et al.* 2020. *Cell*. 178(6):1313-1328.e13. [PubMed](#)
8. Abd Hamid M, *et al.* 2020. *Frontiers in Immunology.* 0.673611111. [PubMed](#)
9. Abd Hamid M, *et al.* 2020. *Cancer Immunology Research.* 8(2):203-216. [PubMed](#)

**RRID** AB\_2562257 (BioLegend Cat. No. 356411)  
 AB\_2562258 (BioLegend Cat. No. 356412)

## Antigen Details

<b>Structure</b>	TNF-R superfamily, type I transmembrane glycoprotein, 50-55 kD
<b>Distribution</b>	Medullary thymocytes, T and B cell subsets, NK cells
<b>Interaction</b>	CD27 binds to CD70
<b>Ligand/Receptor</b>	CD70
<b>Cell Type</b>	B cells, NK cells, T cells, Thymocytes
<b>Biology Area</b>	Costimulatory Molecules, Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	<ol style="list-style-type: none"> <li>1. Knapp W, <i>et al.</i> 1989. <i>Leucocyte Typing IV: White Cell Differentiation Antigens</i>. Oxford University Press.</li> <li>2. Schlossman S, <i>et al.</i> 1995. <i>Leucocyte Typing V: White Cell Differentiation Antigens</i>. Oxford University Press.</li> <li>3. Hintzen R, <i>et al.</i> 1994. <i>Immunol. Today</i> 15:307.</li> <li>4. Agematsu K, <i>et al.</i> 1995. <i>J. Immunol.</i> 154:3627.</li> </ol>
<b>Gene ID</b>	<a href="#">939</a>

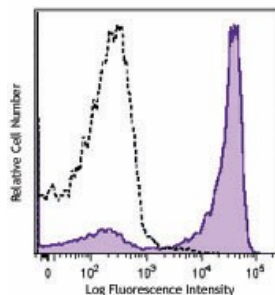
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Purified anti-human CD27, FITC anti-human CD27, PE anti-human CD27, PerCP/Cyanine5.5 anti-human CD27, APC anti-human CD27, PE/Cyanine7 anti-human CD27, Pacific Blue™ anti-human CD27, Alexa Fluor® 700 anti-human CD27, Brilliant Violet 421™ anti-human CD27, Brilliant Violet 510™ anti-human CD27, PE/Dazzle™ 594 anti-human CD27, APC/Cyanine7 anti-human CD27, Biotin anti-human CD27, APC/Fire™ 750 anti-human CD27, Brilliant Violet 711™ anti-human CD27, PerCP anti-human CD27, Alexa Fluor® 647 anti-human CD27, KIRAVIA Blue 520™ anti-human CD27, PE/Cyanine5 anti-human CD27

## Product Data



Human peripheral blood lymphocytes were stained with CD27 (clone M-T271) PE/Cyanine7 (filled histogram) or mouse IgG1 PE/Cyanine7 isotype control (open histogram).

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