

## PE anti-human CD27 Antibody

<b>Catalog# / Size</b>	356405 / 25 tests 356406 / 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, $\kappa$
<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- $\kappa$ B 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 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: immunohistochemical staining of formalin-fixed paraffin-embedded frozen tissue sections <sup>1</sup> , immunofluorescent staining <sup>2</sup> , and ELISA <sup>3</sup> .
<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. Carre C, <i>et al.</i> 2021. <i>iScience.</i> 24:102970. <a href="#">PubMed</a> 2. Xu Y, <i>et al.</i> 2022. <i>Nat Commun.</i> 13:980. <a href="#">PubMed</a> 3. Li H, <i>et al.</i> 2022. <i>Front Immunol.</i> 13:988004. <a href="#">PubMed</a> 4. Ivan Jelcic <i>et al.</i> 2018. <i>Cell.</i> 175(1):85-100. <a href="#">PubMed</a> 5. Kusner L, <i>et al.</i> 2014. <i>PLoS One.</i> 9:102231. <a href="#">PubMed</a>

6. Kaku Y, *et al.* 2021. Cell Reports. 36(2):109385. [PubMed](#)
7. Li T, *et al.* 2022. Int J Infect Dis. 122:874. [PubMed](#)
8. Beatson RE, *et al.* 2021. Cell Rep Med. 2:100473. [PubMed](#)
9. Sperber HS, *et al.* 2020. FASEB J. 14615:34. [PubMed](#)
10. Wu D, *et al.* 2020. Biomark Res. 8:3. [PubMed](#)
11. Song R, *et al.* 2022. Front Immunol. 13:1028246. [PubMed](#)
12. Meckiff BJ, *et al.* 2020. Cell. 183(5):1340-1353.e16. [PubMed](#)
13. Nguyen J, *et al.* 2021. Mol Syst Biol. 17:e10560. [PubMed](#)
14. Wang F, *et al.* 2021. Genomics Proteomics Bioinformatics. 19:208. [PubMed](#)
15. Li M, *et al.* 2020. Nat Commun. 4051:11. [PubMed](#)
16. Sananez I, *et al.* 2021. EBioMedicine. 72:103615. [PubMed](#)

**RRID** AB\_2561824 (BioLegend Cat. No. 356405)  
 AB\_2561825 (BioLegend Cat. No. 356406)

## 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. Leucocyte Typing IV: White Cell Differentiation Antigens. Oxford University Press.</li> <li>2. Schlossman S, <i>et al.</i> 1995. Leucocyte Typing V: White Cell Differentiation Antigens. 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>

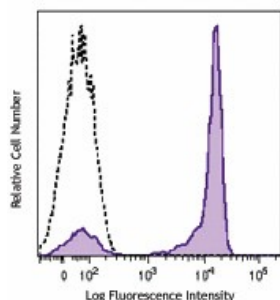
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

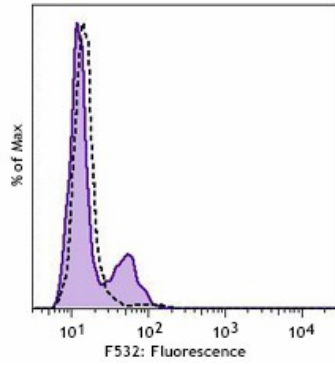
## Other Formats

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 (filled histogram) or mouse IgG1 PE isotype control (open histogram).



Human peripheral blood was stained with CD27 (clone M-T271) PE (solid line) or mouse IgG1,  $\kappa$  PE isotype control (dashed line).

Data was acquired on the Moxi Flow, exported, and processed using FlowJo software.

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Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587