

APC/Cyanine7 anti-human CD27 Antibody

Catalog# / Size	302815 / 25 tests 302816 / 100 tests
Clone	O323
Regulatory Status	RUO
Workshop	IV T-186
Other Names	S152, T14, TNFRSF7
Isotype	Mouse IgG1, κ
Description	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 an important 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

Verified Reactivity	Human, Cynomolgus, Rhesus
Reported Reactivity	African Green, Baboon, Squirrel Monkey
Antibody Type	Monoclonal
Host Species	Mouse
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 APC/Cyanine7 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 CD27 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 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Excitation Laser	Red Laser (633 nm)
Additional Product Notes	BioLegend is in the process of converting the name APC/Cy7 to APC/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our APC/Cyanine7 products. Please contact Technical Service if you have any questions.
Application References	<ol style="list-style-type: none"> Knapp W, <i>et al.</i> Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York. Correia DV, <i>et al.</i> 2011. <i>Blood</i> 118:992. (FC) PubMed
(PubMed link indicates BioLegend citation)	
Product Citations	<ol style="list-style-type: none"> Cohen K, <i>et al.</i> 2014. <i>J Virol.</i> 88:13310. PubMed Freeman ZT, <i>et al.</i> 2020. <i>J Clin Invest.</i> 130:1405. PubMed Cai F, <i>et al.</i> 2021. <i>PLoS Pathog.</i> 17:e1009624. PubMed Ahmed R <i>et al.</i> 2019. <i>Cell.</i> 177(6):1583-1599. PubMed Han Q, <i>et al.</i> 2019. <i>Nat Commun.</i> 10:2898. PubMed Della-Torre E, <i>et al.</i> 2018. <i>Arthritis Rheumatol.</i> 70:1133. PubMed Björkström N, <i>et al.</i> 2008. <i>J Immunol.</i> 181:4219. PubMed

8. Cao R, *et al.* 2014. J Infect Dis. 210:224. [PubMed](#)
9. Williams WB, *et al.* 2021. Cell. 184(11):2955-2972.e25. [PubMed](#)
10. Woolsey C *et al.* 2019. Cell Rep. 28(12):3032-3046 . [PubMed](#)
11. Rahman A, *et al.* 2013. Clin Vaccine Immunol. 20:1592. [PubMed](#)
12. Pufnock J, *et al.* 2011. Blood. 117:6617. [PubMed](#)
13. Grifoni A, *et al.* 2020. Cell. 181(7):1489-1501.e15.. [PubMed](#)
14. Bonte S, *et al.* 2021. Oncoimmunology. 10:1954800. [PubMed](#)
15. Rydzynski Moderbacher C, *et al.* 2020. Cell. 183(4):996-1012.e19. [PubMed](#)
16. Han Q, *et al.* 2020. Cell Rep. 30:1553. [PubMed](#)
17. Correia DV, *et al.* 2011. Blood. 118:992. [PubMed](#)
18. Marek N, *et al.* 2010. Hum Immunol. 71:666. [PubMed](#)
19. Cunnusamy K, *et al.* 2014. Cell Immunol. 152:115. [PubMed](#)
20. Tan EE, *et al.* 2020. J Clin Invest. 130:5817. [PubMed](#)

RRID AB_571976 (BioLegend Cat. No. 302815)
 AB_571977 (BioLegend Cat. No. 302816)

Antigen Details

Structure	TNF-R superfamily, type I transmembrane glycoprotein, 50-55 kD
Distribution	Medullary thymocytes, T and B cell subsets, NK cells
Function	T cell costimulation
Ligand/Receptor	CD70
Cell Type	B cells, NK cells, T cells, Thymocytes, Tregs
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	1. Hintzen R, <i>et al.</i> 1994. <i>Immunol. Today</i> 15:307. 2. Agematsu K, <i>et al.</i> 1995. <i>J. Immunol.</i> 154:3627.
Gene ID	939

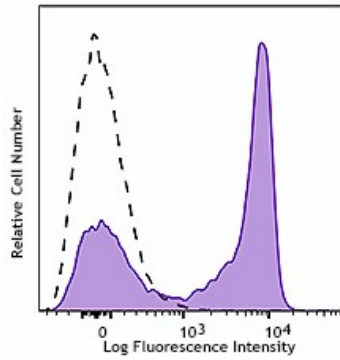
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

APC anti-human CD27, Biotin anti-human CD27, FITC anti-human CD27, PE anti-human CD27, Purified anti-human CD27, Alexa Fluor® 647 anti-human CD27, Alexa Fluor® 700 anti-human CD27, APC/Cyanine7 anti-human CD27, PerCP anti-human CD27, PerCP/Cyanine5.5 anti-human CD27, Pacific Blue™ anti-human CD27, Brilliant Violet 421™ anti-human CD27, Brilliant Violet 570™ anti-human CD27, Brilliant Violet 650™ anti-human CD27, Brilliant Violet 605™ anti-human CD27, Brilliant Violet 711™ anti-human CD27, Brilliant Violet 785™ anti-human CD27, Brilliant Violet 510™ anti-human CD27, PE/Cyanine7 anti-human CD27, Purified anti-human CD27 (Maxpar® Ready), PE/Dazzle™ 594 anti-human CD27, APC/Fire™ 750 anti-human CD27, TotalSeq™-A0154 anti-human CD27, Brilliant Violet 750™ anti-human CD27, TotalSeq™-B0154 anti-human CD27, TotalSeq™-C0154 anti-human CD27, Spark NIR™ 685 anti-human CD27, PE/Fire™ 810 anti-human CD27, TotalSeq™-D0154 anti-human CD27, APC/Fire™ 810 anti-human CD27, PE/Cyanine5 anti-human CD27 Antibody, Spark UV™ 387 anti-human CD27

Product Data



Human peripheral blood lymphocytes stained with CD27 (clone O323) APC/Cyanine7 (filled histogram), or Mouse IgG1, ? APC/Cyanine7 isotype (open histogram).

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