

APC anti-human CD27 Antibody

Catalog# / Size	302809 / 25 tests 302810 / 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- κ B 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 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 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 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Red Laser (633 nm)
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"> Akidil E, <i>et al.</i> 2021. <i>PLoS Pathog.</i> 17:e1009117. PubMed Yeung Y, <i>et al.</i> 2016. <i>Nat Commun.</i> 7:13376. PubMed Li L, <i>et al.</i> 2014. <i>Tuberculosis (Edinb).</i> 94:219. PubMed Minagawa A, <i>et al.</i> 2018. <i>Cell Stem Cell.</i> 1.548611111. PubMed Bouafia A, <i>et al.</i> 2018. <i>J Clin Invest.</i> 129:1047. PubMed Kreye J, <i>et al.</i> 2020. <i>Cell.</i> 183(4):1058-1069.e19. PubMed Kreye J, <i>et al.</i> 2020. <i>bioRxiv.</i> . PubMed Della-Torre E, <i>et al.</i> 2015. <i>Ann Rheum Dis.</i> 74: 2236 - 2243. PubMed Kabanova A, <i>et al.</i> 2016. <i>Cell Rep.</i> S2211-1247: 30219-4. PubMed Frencher J, <i>et al.</i> 2014. <i>J Leukoc Biol.</i> 96:957. PubMed Lee F, <i>et al.</i> 2011. <i>Chest.</i> 140:1155. PubMed

12. Auladell M, *et al.* 2019. Clin Transl Immunology. 8:e01090. [PubMed](#)
13. Li L, *et al.* 2011. PLoS One. 6:e23700. [PubMed](#)
14. Inui M, *et al.* 2015. Int Immunol. 27: 345 - 355. [PubMed](#)
15. Silveira CGT, *et al.* 2022. Front Immunol. 13:908398. [PubMed](#)
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RRID AB_314301 (BioLegend Cat. No. 302809)
 AB_314302 (BioLegend Cat. No. 302810)

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

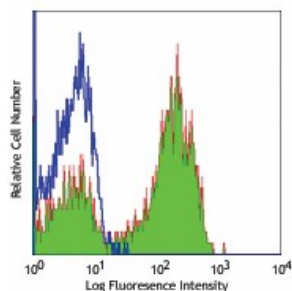
Related Protocols

[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 O323 APC

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