

## APC anti-human CD27 Antibody

<b>Catalog# / Size</b>	302809 / 25 tests 302810 / 100 tests
<b>Clone</b>	O323
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	IV T-186
<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 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- $\kappa$ B and SAPK/JNK activation.

### Product Details

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<b>Verified Reactivity</b>	Human, Cynomolgus, Rhesus
<b>Reported Reactivity</b>	African Green, Baboon, Squirrel Monkey
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<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 APC 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>	Red Laser (633 nm)
<b>Application References</b>	<ol style="list-style-type: none"> <li>Knapp W, <i>et al.</i> Eds. 1989. Leucocyte Typing IV. Oxford University Press. New York.</li> <li>Correia DV, <i>et al.</i> 2011. <i>Blood</i> 118:992. (FC) <a href="#">PubMed</a></li> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>Product Citations</b>	<ol style="list-style-type: none"> <li>Li L, <i>et al.</i> 2014. <i>Tuberculosis (Edinb)</i>. 94:219. <a href="#">PubMed</a></li> <li>Frencher J, <i>et al.</i> 2014. <i>J Leukoc Biol</i>. 96:957. <a href="#">PubMed</a></li> <li>Inui M, <i>et al.</i> 2015. <i>Int Immunol</i>. 27: 345 - 355. <a href="#">PubMed</a></li> <li>Della-Torre E, <i>et al.</i> 2015. <i>Ann Rheum Dis</i>. 74: 2236 - 2243. <a href="#">PubMed</a></li> <li>Kabanova A, <i>et al.</i> 2016. <i>Cell Rep</i>. S2211-1247: 30219-4. <a href="#">PubMed</a></li> <li>Yeung Y, <i>et al.</i> 2016. <i>Nat Commun</i>. 7:13376. <a href="#">PubMed</a></li> <li>Kreye J, <i>et al.</i> 2020. <i>Cell</i>. 183(4):1058-1069.e19. <a href="#">PubMed</a></li> <li>Minagawa A, <i>et al.</i> 2018. <i>Cell Stem Cell</i>. 1.548611111. <a href="#">PubMed</a></li> <li>Bouafia A, <i>et al.</i> 2018. <i>J Clin Invest</i>. 129:1047. <a href="#">PubMed</a></li> <li>Auladell M, <i>et al.</i> 2019. <i>Clin Transl Immunology</i>. 8:e01090. <a href="#">PubMed</a></li> <li>Larbi A, <i>et al.</i> 2009. <i>J Leukoc Biol</i>. 87:265. <a href="#">PubMed</a></li> </ol>

12. Lee F, *et al.* 2011. *Chest*. 140:1155. [PubMed](#)
13. IWATA S, *et al.* 2011. *J Rheumatol*. 38:633. [PubMed](#)
14. Li L, *et al.* 2011. *PLoS One*. 6:e23700. [PubMed](#)

**RRID** AB\_314301 (BioLegend Cat. No. 302809)  
 AB\_314302 (BioLegend Cat. No. 302810)

## 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>Function</b>	T cell costimulation
<b>Ligand/Receptor</b>	CD70
<b>Cell Type</b>	B cells, NK cells, T cells, Thymocytes, Tregs
<b>Biology Area</b>	Costimulatory Molecules, Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	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.
<b>Gene ID</b>	<a href="#">939</a>

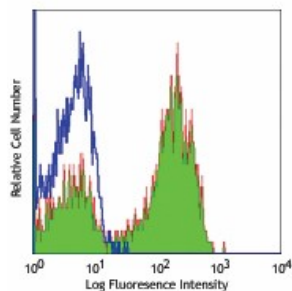
## Related Protocols

[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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