

## GMP PerCP/Cyanine5.5 anti-human CD27 Antibody

<b>Catalog# / Size</b>	260404 / 100 tests
<b>Clone</b>	M-T271
<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>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 True-Stain Monocyte Blocker™, 0.09% sodium azide and 0.2% (w/v) BSA (origin USA) and a stabilizer.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PerCP/Cyanine5.5 under optimal conditions.
<b>Concentration</b>	200 $\mu$ g/mL
<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. It is recommended that the reagent be titrated for optimal performance for each application.  * PerCP/Cyanine5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.
<b>Excitation Laser</b>	Blue Laser (488 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>	
<b>(PubMed link indicates BioLegend citation)</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)

**Disclaimer** **GMP RUO Flow Cytometry Antibodies.** BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include:

- Batch-to-batch consistency
- Material traceability
- Documented procedures
- Documented employee training
- Equipment maintenance and monitoring records
- Lot-specific certificates of analysis
- Quality audits per ISO 13485:2016
- QA review of released products

## Antigen Details

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<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

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- [Cell Surface Flow Cytometry Staining Protocol](#)

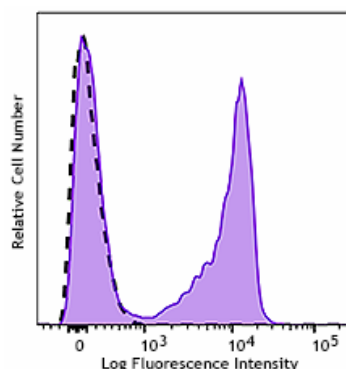
## Other Formats

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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, Brilliant Violet 650™ anti-human CD27, Spark Violet™ 423 anti-human CD27, GMP PE/Cyanine7 anti-human CD27, Spark Red™ 718 anti-human CD27 (Flexi-Fluor™)

## Product Data

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Typical results from human peripheral blood lymphocytes stained either with M-T271 PerCP/Cyanine5.5 used at 5  $\mu$ L/test (filled histogram) or with an isotype control (open histogram).

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