

GMP PE/Cyanine7 anti-human CD27 Antibody

Catalog# / Size	260354 / 100 tests
Clone	M-T271
Workshop	V 5T CD27.03
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 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- κ B and SAPK/JNK activation.

Product Details

Reactivity	Human
Reported Reactivity	Baboon, Cynomolgus, Rhesus
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Human T cells from a T-ALL patient.
Formulation	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.
Preparation	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
Concentration	100 μ g/mL
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. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	Additional reported applications (for the relevant formats) include: immunohistochemical staining of formalin-fixed paraffin-embedded frozen tissue sections ¹ , immunofluorescent staining ² , and ELISA ³ .
Application References	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)
(PubMed link indicates BioLegend citation)	

Disclaimer	<p>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:</p> <ul style="list-style-type: none">• Batch-to-batch consistency• Material traceability• Documented procedures• Documented employee training
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- Equipment maintenance and monitoring records
- Lot-specific certificates of analysis
- Quality audits per ISO 13485:2016
- QA review of released products

Antigen Details

Structure	TNF-R superfamily, type I transmembrane glycoprotein, 50-55 kD
Distribution	Medullary thymocytes, T and B cell subsets, NK cells
Interaction	CD27 binds to CD70
Ligand/Receptor	CD70
Cell Type	B cells, NK cells, T cells, Thymocytes
Biology Area	Costimulatory Molecules, Immunology
Molecular Family	CD Molecules
Antigen References	<ol style="list-style-type: none"> 1. Knapp W, <i>et al.</i> 1989. Leucocyte Typing IV: White Cell Differentiation Antigens. Oxford University Press. 2. Schlossman S, <i>et al.</i> 1995. Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. 3. Hintzen R, <i>et al.</i> 1994. <i>Immunol. Today</i> 15:307. 4. Agematsu K, <i>et al.</i> 1995. <i>J. Immunol.</i> 154:3627.
Gene ID	939

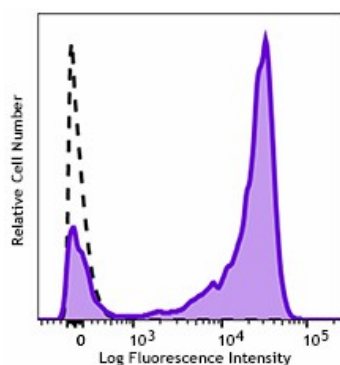
Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

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

Product Data



Typical results from human peripheral blood lymphocytes stained either with M-T271 PE/Cyanine7 used at 5 μ L/test (filled histogram) or with an isotype control (open histogram).

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