

GMP APC anti-human CD27 Antibody

Catalog# / Size	260402 / 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 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 APC 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	Red Laser (633 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	
(PubMed link indicates BioLegend citation)	<ol style="list-style-type: none">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

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

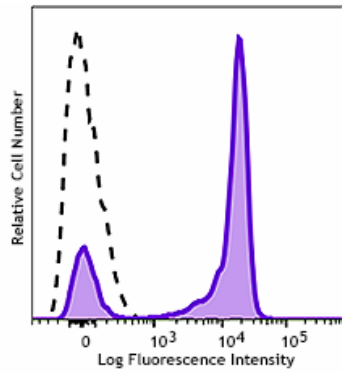
Related Protocols

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

Product Data



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

For Research Use Only. Suitable for *ex vivo* cell processing. Not for injection or diagnostic or therapeutic use.

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