

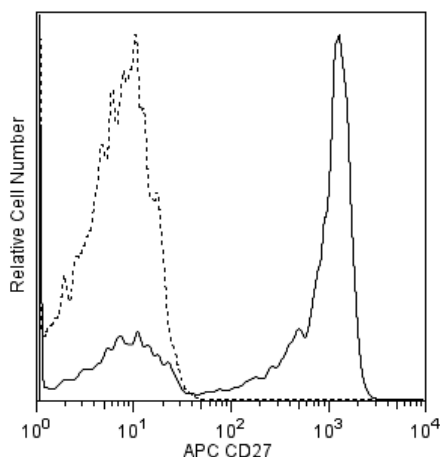
Technical Data Sheet

APC Mouse Anti-Human CD27**Product Information**

Material Number:	561400
Alternate Name:	TNFRSF7; TNF receptor superfamily, member 7; T14; Tp55; S152
Size:	50 Tests
Vol. per Test:	5 µl
Clone:	M-T271
Immunogen:	Human T-CLL cells
Isotype:	Mouse (BALB/c) IgG1, κ
Reactivity:	QC Testing: Rhesus, Cynomolgus, Baboon Tested in Development: Human
Workshop:	IV T187; V 5T CD27.03
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The M-T271 monoclonal antibody specifically binds to the human form of CD27, a type I transmembrane, 110 kDa disulfide-linked homodimeric glycoprotein. The CD27 molecule is a lymphocyte-specific member of the TNFR/NGFR family. CD27 is expressed on a subset of human thymocytes and on the majority of mature T lymphocytes. This antibody also crossreacts with a major subset of peripheral blood lymphocytes and monocytes obtained from some non-human primates (NHP) including baboons as well as rhesus and cynomolgus macaques. CD27 expression is detected on the majority of CD3+ lymphocytes and on a subset of CD20+ cells derived from these NHP donors. The CD27 staining patterns on lymphocytes and monocytes from these NHP donors is similar to that observed with peripheral blood lymphocytes from normal human donors.



Flow cytometric analysis of CD27 expression on Rhesus macaque peripheral blood lymphocytes. Rhesus macaque whole blood was stained with either APC Mouse anti-Human CD27 antibody (Cat. No. 561400/558664/561786; solid line histogram) or with an APC Mouse IgG1, κ Isotype Control (Cat. No. 554681; dashed line histogram). The erythrocytes were lysed with BD PharmLyse™ Lysing Buffer (Cat. No. 555899). The fluorescence histograms were derived from events with the forward and side light-scatter characteristics of viable lymphocytes. Flow cytometry was performed using a BD™ LSR II Flow Cytometer System.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated to APC under optimum conditions, and unconjugated antibody and free APC were removed.

Application Notes**Application**

Flow cytometry

Routinely Tested

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561400 Rev. 2



Suggested Companion Products

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
554681	APC Mouse IgG1 κ Isotype Control	0.1 mg	MOPC-21
555899	Lysing Buffer	100 mL	(none)
554656	Stain Buffer (FBS)	500 mL	(none)
554657	Stain Buffer (BSA)	500 mL	(none)
558664	APC Mouse anti-Human CD27	100 Tests	M-T271
561786	APC Mouse Anti-Human CD27	25 Tests	M-T271

Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100- μ l experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. This APC-conjugated reagent can be used in any flow cytometer equipped with a dye, HeNe, or red diode laser.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
7. Species testing during development may have been performed with a different format of the same clone. Selected applications have been tested for cross-reactivity.
8. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.

References

Bigler RD, Bushkin Y, Chiorazzi N. S152 (CD27). A modulating disulfide-linked T cell activation antigen. *J Immunol.* 1988; 141(1):21-28. (Biology)

Bigler RD, Donat TL, Boselli CM. Definition of three epitopes of the CD27 molecule [P 120->55] present on activated normal lymphocytes. In: Knapp W. W. Knapp .. et al., ed. *Leucocyte typing IV : white cell differentiation antigens*. Oxford New York: Oxford University Press; 1989:351-352. (Biology)

Schlossman SF, Stuart F, Schlossman .. et al., ed. *Leucocyte typing V : white cell differentiation antigens : proceedings of the fifth international workshop and conference held in Boston, USA, 3-7 November, 1993*. Oxford: Oxford University Press; 1995(Clone-specific)