

# CD27 Monoclonal Antibody (LG.7F9), APC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	LG.7F9
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_469370

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.06 µg/test	27 Publications

## Product Specific Information

**Description:** The LG.7F9 monoclonal antibody reacts with mouse CD27, a lymphocyte-specific member of the TNFR superfamily. CD27 is expressed by virtually all mature T cells and by a subpopulation of B cells, mainly memory B cells. In mouse, CD27 has been found on nearly all thymocytes excluding a population of CD46-CD8- precursors. CD27 binds to CD70 and, through this interaction, plays an important role in T cell-B cell interaction. It has been reported that triggering CD27 plays an important role in the maturation of CD4+ and CD8+ effector cells. LG.7F9 cross-reacts with human and rat CD27.

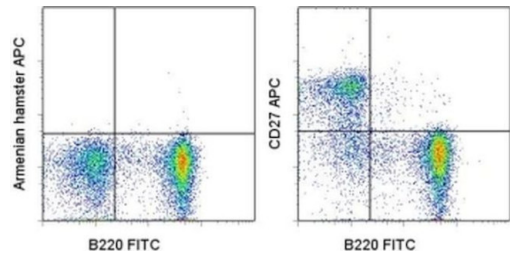
**Applications Reported:** The LG.7F9 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The LG.7F9 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.06 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Excitation:** 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

Product Images For CD27 Monoclonal Antibody (LG.7F9), APC, eBioscience™



**CD27 Antibody (17-0271-82) in Flow**  
Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.03 µg of Armenian Hamster IgG Isotype Control APC (Product # 17-4888-82) (left) or 0.03 µg of Anti-CD27 APC (right). Total viable cells were used for analysis.

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27 References

Flow Cytometry (27)

<p>eLife</p> <p><b>The transcription factor Bach2 negatively regulates murine natural killer cell maturation and function.</b></p> <p>"Published figure using CD27 monoclonal antibody (Product # 17-0271-82) in Flow Cytometry"</p> <p>Authors: Li S,Bern MD,Miao B,Fan C,Xing X,Inoue T,Piersma SJ,Wang T,Colonna M,Kurosaki T,Yokoyama WM</p>	<p>Year</p> <p>2022</p>
<p>Cell reports</p> <p><b>PI3K coordinates transcriptional, chromatin, and metabolic changes to promote effector CD8<sup>+</sup> T cells at the expense of central memory.</b></p> <p>"Published figure using CD27 monoclonal antibody (Product # 17-0271-82) in Flow Cytometry"</p> <p>Authors: Cannons JL,Villarino AV,Kapnick SM,Preite S,Shih HY,Gomez-Rodriguez J,Kaul Z,Shibata H,Reilley JM,Huang B,Handon R,McBain IT,Gossa S,Wu T,Su HC,McGavern DB,O'Shea JJ,McGuire PJ,Uzel G,Schwartzberg PL</p>	<p>Year</p> <p>2021</p>

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