

CD27 Monoclonal Antibody (LG.7F9), APC-eFluor 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse, Human
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), APC-eFluor 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	LG.7F9
Conjugate	APC-eFluor® 780
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_10853642

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	11 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: This LG.7F9 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This LG.7F9 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

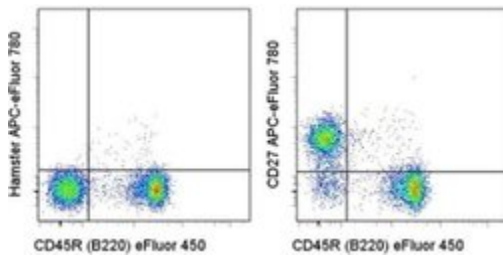
Light sensitivity: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD27 Monoclonal Antibody (LG.7F9), APC-eFluor 780, eBioscience™



CD27 Antibody (47-0271-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Human/Mouse CD45R (B220) eFluor® 450 (Product # 48-0452-82) and 0.125 µg of Armenian Hamster IgG Isotype Control APC-eFluor® 780 (Product # 47-4888-80) (left) or 0.125 µg of Anti-CD27 APC-eFluor® 780 (right). Total viable cells were used for analysis.

[View more figures on thermofisher.com](#)

11 References

Flow Cytometry (11)

mSphere

Effect of Subcutaneous Anti-CD20 Antibody-Mediated B Cell Depletion on Susceptibility to Pneumocystis Infection in Mice.

"Published figure using CD27 monoclonal antibody (Product # 47-0271-82) in Flow Cytometry"

Authors: Dai G, Noell K, Weckbecker G, Kolls JK

Species
Not Applicable

Dilution
Not Cited

Year
2021

Cell reports

Hhex Directly Represses BIM-Dependent Apoptosis to Promote NK Cell Development and Maintenance.

"47-0271 was used in Flow cytometry/Cell sorting to show homeobox transcriptional regulator Hhex regulates NK cell homeostasis and immunity."

Authors: Goh W, Scheer S, Jackson JT, Hediye-Zadeh S, Delconte RB, Schuster IS, Andoniou CE, Rautela J, Degli-Esposti MA, Davis MJ, McCormack MP, Nutt SL, Huntington ND

Species
Mouse

Dilution
Not Cited

Year
2020

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

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