

CD27 Monoclonal Antibody (LG.7F9), Super Bright™ 600, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	LG.7F9
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2734941

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	12 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 0.5 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.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

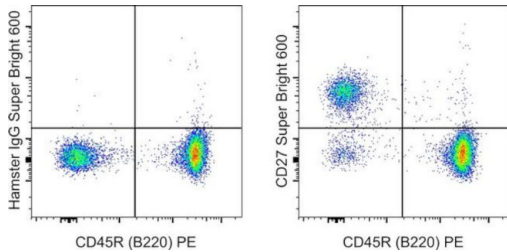
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 2-8°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorochrome performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 600 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD27 Monoclonal Antibody (LG.7F9), Super Bright™ 600, eBioscience™



CD27 Antibody (63-0271-82) in Flow

SJL mouse splenocytes were stained with CD45R (B220) Monoclonal Antibody, PE (Product # 12-0452-82) and 0.25 μ g of Armenian Hamster IgG Isotype Control, Super Bright 600 (Product # 63-4888-82) (left) or 0.25 μ g of CD27 Monoclonal Antibody, Super Bright 600 (right). Cells in the lymphocyte gate were used for analysis.

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

12 References

Flow Cytometry (12)

Nature communications

Perinatal murine cytomegalovirus infection reshapes the transcriptional profile and functionality of NK cells.

"Published figure using CD27 monoclonal antibody (Product # 63-0271-82) in Flow Cytometry"

Authors: Rožmani C, Lisni B, Pribani Matešić M, Mihalić A, Hiršl L, Park E, Lesac Brizi A, Indenbirken D, Viduka I, Šantić M, Adler B, Yokoyama WM, Krmpotić A, Juranić Lisni V, Jonjić S, Brizić I

Year
2023

eLife

The transcription factor Bach2 negatively regulates murine natural killer cell maturation and function.

"Published figure using CD27 monoclonal antibody (Product # 63-0271-82) in Flow Cytometry"

Authors: Li S, Bern MD, Miao B, Fan C, Xing X, Inoue T, Piersma SJ, Wang T, Colonna M, Kurosaki T, Yokoyama WM

Year
2022

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