

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
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	1 Publication

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.

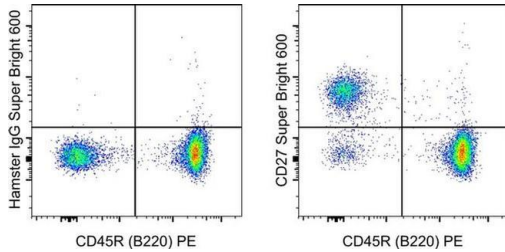
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 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 µg of Armenian Hamster IgG Isotype Control, Super Bright 600 (Product # 63-4888-82) (left) or 0.25 µg of CD27 Monoclonal Antibody, Super Bright 600 (right). Cells in the lymphocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

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 # 63-0271-82) in Flow Cytometry"

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

Species
Not Applicable

Dilution
Not Cited

Year
2021

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