CD27 Monoclonal Antibody (LG.7F9), Super Bright™ 436, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	LG.7F9
Conjugate	Super Bright™ 436
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_2734939

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	8 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 may 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. 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

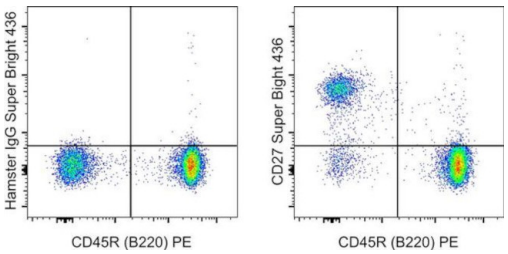
Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 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: 405 nm; Emission: 436 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™ 436, eBioscience™



CD27 Antibody (62-0271-82) in Flow
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 436 (Product # 62-4888-82) (left) or 0.25 µg of CD27 Monoclonal Antibody, Super Bright 436 (right). Total viable cells were used for analysis.

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8 References

Flow Cytometry (8)

Cell reports

PI3K coordinates transcriptional, chromatin, and metabolic changes to promote effector CD8^{+} T cells at the expense of central memory.

"Published figure using CD27 monoclonal antibody (Product # 62-0271-82) in Flow Cytometry"

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

Year
2021

The Journal of experimental medicine

Chronic T cell proliferation in brains after stroke could interfere with the efficacy of immunotherapies.

"62-0271-82 was used in Flow Cytometry to show a persistent accumulation of T cells in mice and human autopsy samples for more than 1 mo after stroke."

Authors: Heindl S,Ricci A,Carofiglio O,Zhou Q,Arzberger T,Lenart N,Franzmeier N,Hortobagyi T,Nelson PT,Stowe AM, Denes A,Edbauer D,Liesz A

Year
2021

Species
Mouse

Dilution
1:100

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