CD27 Monoclonal Antibody (LG.7F9), PE, 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), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	LG.7F9
Conjugate	PE
Excitation/Emission Max	565/576 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_465614

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	41 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.

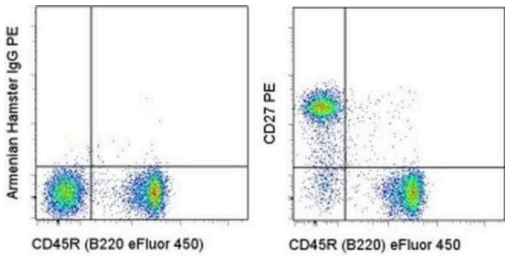
Applications Reported: The LG.7F9 antibody has been reported for use in flow cytometric analysis.

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 0.125 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD27 Antibody (12-0271-82) in Flow
Staining of C57Bl/6 splenocytes with Anti-Human/Mouse CD45R (B220) eFluor® 450 (Product # 48-0452-82) and 0.06 µg of Armenian Hamster IgG Isotype Control PE (Product # 12-4888-81) (left) or 0.06 µg of Anti-CD27 PE (right). Total viable cells were used for analysis.

View more figures on thermofisher.com

41 References

Flow Cytometry (41)

eLife

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

"Published figure using CD27 monoclonal antibody (Product # 12-0271-82) 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

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 # 12-0271-82) 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

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.