

CD27 Monoclonal Antibody (LG.7F9), PerCP-eFluor™ 710, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), PerCP-eFluor™ 710, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	LG.7F9
Conjugate	PerCP-eFluor™ 710
Excitation/Emission Max	482/708 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_1834447

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.06 µg/test	22 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 spleen cells. This can be used at less than or equal to 0.06 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.

PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm); it can be used in place of PerCP-Cyanine5.5. We recommend using a 710/50 bandpass filter, however, the 695/40 bandpass filter is an acceptable alternative. Please make sure that your instrument is capable of detecting this fluorochrome.

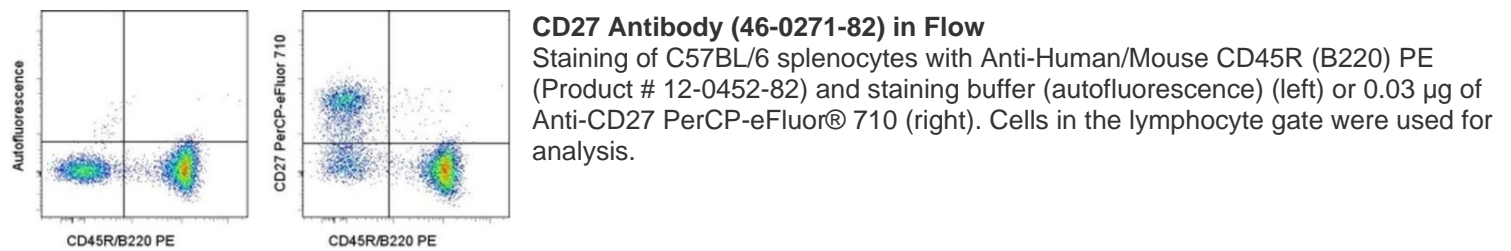
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency

/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 488 nm; Emission: 710 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD27 Monoclonal Antibody (LG.7F9), PerCP-eFluor™ 710, eBioscience™



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22 References

Flow Cytometry (22)

<p>eLife</p> <p>The transcription factor Bach2 negatively regulates murine natural killer cell maturation and function.</p> <p>"Published figure using CD27 monoclonal antibody (Product # 46-0271-82) in Flow Cytometry"</p> <p>Authors: Li S,Bern MD,Miao B,Fan C,Xing X,Inoue T,Piersma SJ,Wang T,Colonna M,Kurosaki T,Yokoyama WM</p>	<p>Year</p> <p>2022</p>
<p>Cell reports</p> <p>PI3K coordinates transcriptional, chromatin, and metabolic changes to promote effector CD8⁺ T cells at the expense of central memory.</p> <p>"Published figure using CD27 monoclonal antibody (Product # 46-0271-82) in Flow Cytometry"</p> <p>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</p>	<p>Year</p> <p>2021</p>

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