

CD27 Monoclonal Antibody (LG.7F9), Biotin, 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), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	LG.7F9
Conjugate	Biotin
Form	Liquid
Concentration	0.5 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_466406

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.125 µg/test	16 Publications
Functional Assay (FN)	-	1 Publication

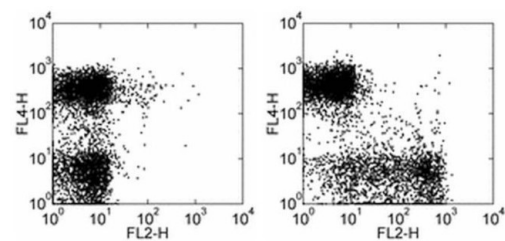
Product Specific Information

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 0.125 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Filtration: 0.2 µm post-manufacturing filtered.



CD27 Antibody (13-0271-82) in Flow
Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and 0.06 µg of Armenian Hamster IgG Isotype Control Biotin (Product # 13-4888-81) (left) or 0.06 µg of Anti-CD27 Biotin (right) followed by Streptavidin PE (Product # 12-4317-87). Total viable cells were used for analysis.

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18 References

Immunocytochemistry (1)

<p>Journal of immunology (Baltimore, Md. : 1950)</p> <p>T cells are essential effectors of type 1 diabetes in the nonobese diabetic mouse model.</p> <p>"13-0271 was used in Flow cytometry/Cell sorting to elucidate the role of various subsets of T cells in a murine model for autoimmune disease."</p> <p>Authors: Markle JG,Mortin-Toth S,Wong AS,Geng L,Hayday A,Danska JS</p>	<p>Year 2013</p> <p>Species Mouse</p>
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Flow Cytometry (16)

<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 # 13-0271-82) 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 2022</p>
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<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 # 13-0271-82) 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 2021</p>
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Functional Assay (1)

<p>Journal of immunology (Baltimore, Md. : 1950)</p> <p>Characterization of murine CD70, the ligand of the TNF receptor family member CD27.</p> <p>Authors: Tesselaar K,Gravestien LA,van Schijndel GM,Borst J,van Lier RA</p>	<p>Year 1997</p>
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