

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

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse, Human
Host/Isotype	Armenian hamster / IgG
Class	Monoclonal
Type	Antibody
Clone	LG.7F9
Conjugate	Unconjugated
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
RRID	AB_467183

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	38 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Neutralization (Neu)	Assay-Dependent	-
Functional Assay (FN)	Assay-Dependent	-
Miscellaneous PubMed (Misc)	-	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, and immunoprecipitation. Use of mild detergent lysates is recommended when performing immunoprecipitation with this mAb. LG.7F9 has also been reported in blocking of ligand binding. (Please use Functional Grade purified LG.7F9, cat. 16-0271, in functional assays.)

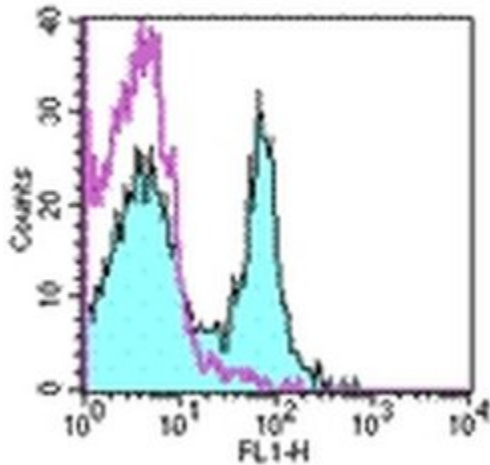
Applications Tested: The LG.7F9 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined 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.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD27 Antibody (14-0271-82) in Flow

Staining of mouse splenocytes with 0.25 µg Hamster IgG Isotype Control Purified (Product # 14-4888-81) (open histogram) or 0.25 µg Anti-CD27 Purified (filled histogram) followed by Anti-Armenian Hamster IgG FITC (Product # 11-4111). Total viable cells were used for analysis.

[View more figures on thermofisher.com](http://thermofisher.com)

40 References

Immunohistochemistry (1)

Cell reports

Iterative Single-Cell Analyses Define the Transcriptome of the First Functional Hematopoietic Stem Cells.

Authors: Vink CS, Calero-Nieto FJ, Wang X, Maglitto A, Mariani SA, Jawaid W, Göttgens B, Dzierzak E

Species
Mouse

Dilution
1:100

Year
2020

Flow Cytometry (38)

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 # 14-0271-82) in Flow Cytometry"

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

Species
Not Applicable

Dilution
Not Cited

Year
2021

Cell reports

Divergent Role for STAT5 in the Adaptive Responses of Natural Killer Cells.

"14-0271 was used in Flow cytometry/Cell sorting to investigate how STAT5 regulates transcription during viral infection."

Authors: Wiedemann GM, Grassmann S, Lau CM, Rapp M, Villarino AV, Friedrich C, Gasteiger G, O'Shea JJ, Sun JC

Species
Mouse

Dilution
Not Cited

Year
2020

[View more Flow references on thermofisher.com](#)

Miscellaneous PubMed (1)

Journal of immunology (Baltimore, Md. : 1950)

Characterization of murine CD70, the ligand of the TNF receptor family member CD27.

Authors: Tesselaar K, Gravestien LA, van Schijndel GM, Borst J, van Lier RA

Species
Not Applicable

Dilution
Not Cited

Year
1997

More applications with references on thermofisher.com

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