

GL7 Monoclonal Antibody (GL-7 (GL7)), eFluor™ 450, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgM
Recommended Isotype Control	Rat IgM Isotype Control (eBRM), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	GL-7 (GL7)
Conjugate	eFluor™ 450
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10870775

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	25 Publications
Functional Assay (FN)	-	1 Publication

Product Specific Information

Description: This GL7 monoclonal antibody reacts with a cell-surface protein found on T and B lymphocytes activated in vitro, on bone marrow pre-B-II cells, germinal center B cells, and also human B cell lines Ramos and Daudi. There is strain variability with respect to antigen distribution on thymocytes and Con A-activated spleen cells, with expression in BALB/c greater than that in C57BL/6. GL7 is commonly used as a marker for mouse germinal center B cells. The epitope of GL7 has been identified as a sialic acid glycan moiety called Neu5Ac. This moiety is recognized by CD22.

Applications Reported: This GL-7 (GL7) antibody has been reported for use in flow cytometric analysis.

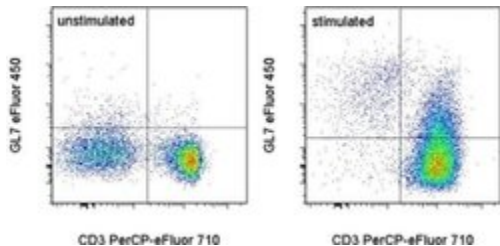
Applications Tested: This GL-7 (GL7) antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number 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.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For GL7 Monoclonal Antibody (GL-7 (GL7)), eFluor™ 450, eBioscience™



GL7 Antibody (48-5902-82) in Flow

Staining of unstimulated (left) or 3-day Con A-stimulated (right) C57Bl/6 splenocytes with Anti-Mouse CD3 PerCP-eFluor® 710 (Product # 46-0032-82) 0.25 µg of Anti-Human/Mouse GL7 (T and B Cell Activation Marker) eFluor® 450. Total viable cells were used for analysis.

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

31 References

Immunohistochemistry (3)

Cell metabolism

Microbiota-Derived Metabolites Suppress Arthritis by Amplifying Aryl-Hydrocarbon Receptor Activation in Regulatory B Cells.

"Published figure using GL7 monoclonal antibody (Product # 48-5902-82) in Immunohistochemistry"

Authors: Rosser EC, Piper CJM, Matei DE, Blair PA, Rendeiro AF, Orford M, Alber DG, Krausgruber T, Catalan D, Klein N, Manson JJ, Drozdov I, Bock C, Wedderburn LR, Eaton S, Mauri C

Species
Not Applicable

Dilution
Not Cited

Year
2020

Frontiers in immunology

Deficiency in Calcium-Binding Protein S100A4 Impairs the Adjuvant Action of Cholera Toxin.

"Published figure using GL7 monoclonal antibody (Product # 48-5902-82) in Immunofluorescence"

Authors: Sun JB, Holmgren J, Larena M, Terrinoni M, Fang Y, Bresnick AR, Xiang Z

Species
Not Applicable

Dilution
Not Cited

Year
2019

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

Immunocytochemistry (2)

Nature communications

B cell activation and plasma cell differentiation are inhibited by de novo DNA methylation.

"Published figure using GL7 monoclonal antibody (Product # 48-5902-82) in Immunofluorescence"

Authors: Barwick BG, Scharer CD, Martinez RJ, Price MJ, Wein AN, Haines RR, Bally APR, Kohlmeier JE, Boss JM

Species
Not Applicable

Dilution
Not Cited

Year
2018

Nature communications

Limited clonal relatedness between gut IgA plasma cells and memory B cells after oral immunization.

"Published figure using GL7 monoclonal antibody (Product # 48-5902-82) in Flow Cytometry"

Authors: Bemark M, Hazanov H, Strömberg A, Komban R, Holmqvist J, Köster S, Mattsson J, Sikora P, Mehr R, Lycke NY

Species
Mouse

Dilution
Not Cited

Year
2016

More applications with references on thermofisher.com

Flow (25) **FN (1)**

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