

# GL7 Monoclonal Antibody (GL-7 (GL7)), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgM
Class	Monoclonal
Type	Antibody
Clone	GL-7 (GL7)
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_467715

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	6 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	-
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	23 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
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:** The GL-7 (GL7) antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining of frozen tissue sections.

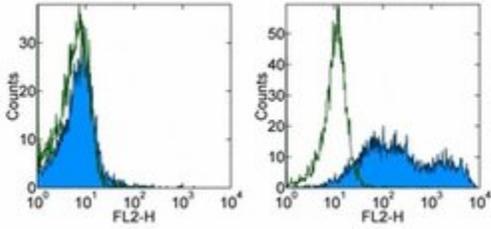
**Applications Tested:** The GL-7 (GL7) antibody has been tested by flow cytometric analysis of Con A-stimulated mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> 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 GL7 Monoclonal Antibody (GL-7 (GL7)), eBioscience™



### GL7 Antibody (14-5902-82) in Flow

Staining of 3-day unstimulated (left) and 3-day Con A-stimulated (Product # 00-4978-03) (right) BALB/c splenocytes with 0.25 µg of Rat IgM K Isotype Control Purified (Product # 14-4341-82) (open histogram) or 0.25 µg of Anti-Human/Mouse GL7 (T and B Cell Activation Marker) Purified (filled histogram) followed by Anti-Rat IgM PE (Product # 12-0990-82). Total viable cells were used for analysis.

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## Immunohistochemistry (6)

### Cell metabolism

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

"14-5902 was used in Immunohistochemistry-immunofluorescence to investigate butyrate supplementation as a potential therapy for the amelioration of systemic autoimmune disorders."

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**  
Mouse  
Not Applicable

**Dilution**  
Not Cited  
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 # 14-5902-82) 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 # 14-5902-82) 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 # 14-5902-82) in Immunofluorescence"

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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2016

## More applications with references on thermofisher.com

Flow (23) FN (1)

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