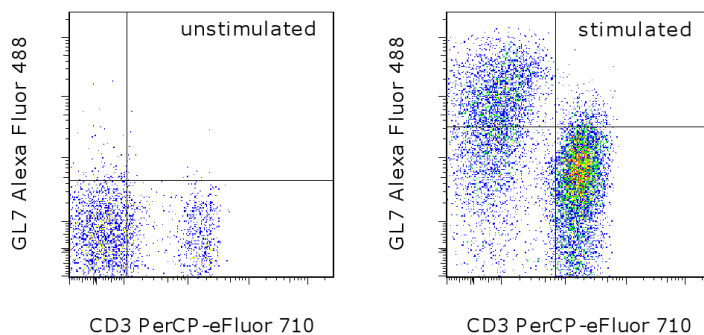


## Anti-Human/Mouse GL7 (T and B Cell Activation Marker) Alexa Fluor<sup>®</sup> 488

**Catalog Number:** 53-5902

**Also known as:** GL-7, Ly-77, Ly77

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of unstimulated (left) or Con A-stimulated (right) C57Bl/6 splenocytes with Anti-Mouse CD3e PE (cat. 12-0031) and 0.25  $\mu$ g of Anti-Human/Mouse GL7 (T and B Cell Activation Marker) Alexa Fluor<sup>®</sup> 488. Total viable cells, as determined by Fixable Viability Dye eFluor<sup>®</sup> 780 (cat. 65-0865) were used for analysis.

### Product Information

**Contents:** Anti-Human/Mouse GL7 (T and B Cell Activation Marker) Alexa Fluor<sup>®</sup> 488

**Catalog Number:** 53-5902

**Clone:** GL-7 (GL7)

**Concentration:** 0.5 mg/mL

**Host/Isotype:** Rat IgM

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium azide**



### 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  $\mu$ g per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Kimura N, Ohmori K, Miyazaki K, Izawa M, Matsuzaki Y, Yasuda Y, Takematsu H, Kozutsumi Y, Moriyama A, Kannagi R. Human B-lymphocytes express alpha2-6-sialylated 6-sulfo-N-acetyllactosamine serving as a preferred ligand for CD22/Siglec-2. *J Biol Chem.* 2007 Nov 2;282(44):32200-7. (GL7, FA, human cells, PubMed)

Naito Y, Takematsu H, Koyama S, Miyake S, Yamamoto H, Fujinawa R, Sugai M, Okuno Y, Tsujimoto G, Yamaji T, Hashimoto Y, Itohara S, Kawasaki T, Suzuki A, Kozutsumi Y. Germinal center marker GL7 probes activation-dependent repression of N-glycolylneuraminic acid, a sialic acid species involved in the negative modulation of B-cell activation. *Mol Cell Biol.* 2007 Apr;27(8):3008-22.

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Han, S., B. Zheng, Y. Takahashi, and G. Kelsoe. Distinctive characteristics of germinal center B cells. *Semin. Immunol.* 1997; 9: 255 - 260.

Han, S., S.R. Dillon, B. Zheng, M. Shimoda, M.S. Schlissel, and G. Kelsoe. V(D)J recombinase activity in a subset of germinal center B lymphocytes. *Science* 1997; 278: 301 - 305.

Han, S., B. Zheng, D.G. Schatz, E. Spanopoulou, and G. Kelsoe. Neoteny in lymphocytes: Rag1 and Rag2 expression in germinal center B cells. *Science* 1996; 274: 2094 - 2097.

Hathcock, K.S., C.E.M. Pucillo, G. Laszlo, L. Lai, and R.J. Hodes. Analysis of thymic subpopulations expressing the activation antigen GL7. Expression, genetics, and function. *J. Immunol.* 1995; 155: 4575 - 4581.

Laszlo, G., K.S. Hathcock, H.B. Dickler, and R.J. Hodes. Characterization of a novel cell-surface molecule expressed on subpopulations of activated T and B cells. *J. Immunol.* 1993; 150: 5252 - 5262.

### Related Products

12-0031 Anti-Mouse CD3e PE (145-2C11)

53-4341 Rat IgM Isotype Control Alexa Fluor® 488

65-0865 Fixable Viability Dye eFluor® 780

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