

## Biotin anti-mouse/human GL7 Antigen (T and B cell Activation Marker) Antibody

<b>Catalog# / Size</b>	144616 / 100 µg
<b>Clone</b>	GL7
<b>Regulatory Status</b>	RUO
<b>Other Names</b>	Ly77, T and B cell activation marker
<b>Isotype</b>	Rat IgM, κ
<b>Description</b>	The GL7 antigen, also known as Ly77, is a 35 kD protein. The GL7 antigen has an epitope containing non-sulfated α2-6-sialyl-LacNAc recognized by the GL7 antibody. The GL7 antigen is expressed by pre-B and immature B cells, activated T and B cells, and about 20% of TCR-bright thymocytes. It is upregulated on mouse splenocytes following activation. It may play a role in regulation or adhesion. GL7 high-expressing B cells show higher antibody production and antigen presenting capacity.

### Product Details

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<b>Verified Reactivity</b>	Mouse, Human
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Rat
<b>Immunogen</b>	LPS activated DBA/J mouse B cells
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions.
<b>Concentration</b>	0.5 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is ≤ 0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Application Notes</b>	The GL7 antibody does not block the binding of CD22 with sulfated α2-6-sialyl-LacNAc. Cross-reactivity to ferret has been reported by a collaborator, but not verified in house.
<b>Application References</b>	<ol style="list-style-type: none"> <li>1. Laszlo G, <i>et al.</i> 1993. <i>J. Immunol.</i> 150:5252. (FC, IP)</li> <li>2. Hartgring SA, <i>et al.</i> 2012. <i>Arthritis Res. Ther.</i> 14:R137. (FC)</li> <li>3. Taylor JJ, <i>et al.</i> 2012. <i>J. Exp. Med.</i> 209:597. (FC, IHC)</li> <li>4. Balogh A, <i>et al.</i> 2010. <i>Immunol. Lett.</i> 130:89. (IHC)</li> <li>5. Kimura N, <i>et al.</i> 2007. <i>J. Biol. Chem.</i> 282:32200. (ELISA, FC)</li> </ol>
<b>(PubMed link indicates BioLegend citation)</b>	
<b>RRID</b>	AB_2721505 (BioLegend Cat. No. 144616)

### Antigen Details

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<b>Structure</b>	35 kD
<b>Distribution</b>	Germinal center B cells, activated B and T cells

<b>Function</b>	Upregulated on activated B cells via <i>in situ</i> repression of CMP-Neu5Ac-hydroxylase
<b>Ligand/Receptor</b>	Neu5Ac-recognizing lectins
<b>Cell Type</b>	B cells, T cells
<b>Biology Area</b>	Immunology, Innate Immunity
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	1. Laszlo G, <i>et al.</i> 1993. <i>J. Immunol.</i> 150:5252. 2. Hathcock KS, <i>et al.</i> 1995. <i>J. Immunol.</i> 155:4575. 3. Cervenak K, <i>et al.</i> 2001. <i>Immunol. Lett.</i> 78:89.
<b>Gene ID</b>	NA

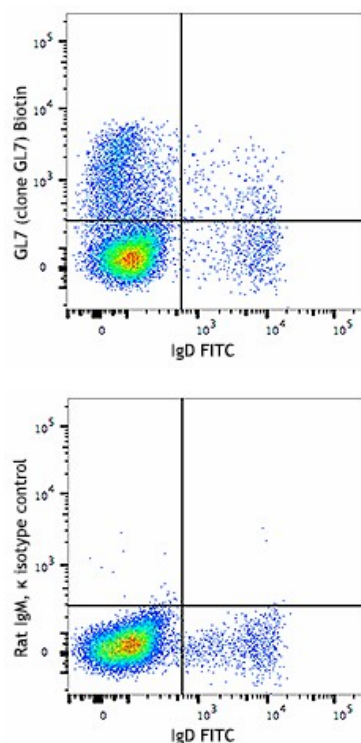
## Related Protocols

[Cell Surface Flow Cytometry Staining Protocol](#)

## Other Formats

Pacific Blue™ anti-mouse/human GL7 Antigen (T and B cell Activation Marker), Alexa Fluor® 488 anti-mouse/human GL7 Antigen (T and B cell Activation Marker), Alexa Fluor® 647 anti-mouse/human GL7 Antigen (T and B cell Activation Marker), Purified anti-mouse/human GL7 Antigen (T and B cell Activation Marker), FITC anti-mouse/human GL7 Antigen (T and B cell Activation Marker), PE anti-mouse/human GL7 Antigen (T and B cell Activation Marker), PerCP/Cyanine5.5 anti-mouse/human GL7 Antigen (T and B cell Activation Marker), Biotin anti-mouse/human GL7 Antigen (T and B cell Activation Marker), APC anti-mouse/human GL7 Antigen (T and B cell Activation Marker), PE/Cyanine7 anti-mouse/human GL7 Antigen (T and B cell Activation Marker)

## Product Data



BALB/c mouse bone marrow cells were stained with anti-mouse IgD FITC and biotinylated anti-mouse GL7 (clone GL7) (top) or biotinylated rat IgM, κ APC isotype control (bottom); followed by Streptavidin PE.

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