

## Datasheet: MCA771A647T

**BATCH NUMBER 155747**

<b>Description:</b>	RAT ANTI MOUSE Ly-6B.2 ALLOANTIGEN:Alexa Fluor® 647
<b>Specificity:</b>	Ly-6B.2 ALLOANTIGEN
<b>Format:</b>	ALEXA FLUOR® 647
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	7/4
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	25 TESTS/0.25ml

### Product Details

#### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			Neat - 1/10

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use their own system using appropriate negative/positive controls.

<b>Target Species</b>	Mouse		
<b>Product Form</b>	Purified IgG conjugated to Alexa Fluor® 647 - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Alexa Fluor®647	650	665
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		

<b>Immunogen</b>	Cultured bone marrow cells
<b>RRID</b>	AB_1102791
<b>Fusion Partners</b>	Spleen cells from AO rats were fused with cells from the Y3 Ag1.2.3 rat myeloma cell line.
<b>Specificity</b>	<p><b>Rat anti Mouse Ly-6B.2 monoclonal antibody, clone 7/4</b> recognizes the Ly-6B.2 antigen. Ly-6B.2 is a ~25-30 kDa GPI-anchored, heavily glycosylated protein expressed on neutrophils, inflammatory monocytes and some activated macrophages (<a href="#">Rosas et al. 2010</a>). High levels of expression are seen in bone marrow, spleen, lung and lymph nodes. N-glycanase treatment of thioglycollate elicited peritoneal neutrophil lysates lowers the apparent molecular weight of Ly-6B.2 to ~15 kDa (<a href="#">Rosas et al.2010</a>).</p> <p>In common with other Ly-6 antigens Ly-6B.2 demonstrates a <a href="#">polymorphic</a> expression on inbred mouse strains (<a href="#">Kimura et al. 1984</a>). Rat anti mouse Ly-6B.2, clone 7/4 recognizes the Ly-6B.2 antigen in 129J; AKR; C57BL/6; C57BL/10; C58; DBA/2; NZB; NZW; SJL; MFI; Swiss (PO) Strains whilst A2G; A/Sn; ASW; BALB/c; C3H/HEH; CBA.T6T6 are negative or demonstrate very weak reactivity (<a href="#">Hirsch and Gordon 1982</a>).</p> <p>Rat anti mouse Ly-6B.2 has been successfully used for the immunomagnetic depletion of neutrophils during the enrichment of primitive hematopoietic cells from bone marrow (<a href="#">Bertoncello et al. 1991</a>) and the depletion of myeloid cells <i>in vivo</i> (<a href="#">Rosas et al. 2010</a>).</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Gordon, S. <i>et al.</i> (1992) Antigen markers of macrophage differentiation in murine tissues. <a href="#">Curr Top Microbiol Immunol. 181: 1-37.</a></li> <li>Horiba, M. <i>et al.</i> (2000) Neointima formation in a restenosis model is suppressed in midkine-deficient mice. <a href="#">J Clin Invest. 105: 489-95.</a></li> <li>Pyo, R. <i>et al.</i> (2000) Targeted gene disruption of matrix metalloproteinase-9 (gelatinase B) suppresses development of experimental abdominal aortic aneurysms. <a href="#">J Clin Invest. 105: 1641-9.</a></li> <li>Liao, C. <i>et al.</i> (2001) Altered myelopoiesis and the development of acute myeloid leukemia in transgenic mice overexpressing cyclin A1. <a href="#">Proc Natl Acad Sci U S A. 98: 6853-8.</a></li> <li>Song, Y. <i>et al.</i> (2001) A low level of TNF-alpha mediates hemorrhage-induced acute lung injury via p55 TNF receptor. <a href="#">Am J Physiol Lung Cell Mol Physiol. 281: L677-84.</a></li> <li>Singbartl, K. <i>et al.</i> (2001) Platelet, but not endothelial, P-selectin is critical for neutrophil-mediated acute postischemic renal failure. <a href="#">FASEB J. 15: 2337-44.</a></li> <li>Endlich, B. <i>et al.</i> (2002) Distinct temporal patterns of macrophage-inflammatory protein-2 and KC chemokine gene expression in surgical injury. <a href="#">J Immunol. 168: 3586-94.</a></li> <li>Lacroix-Lamandé, S. <i>et al.</i> (2002) Role of gamma interferon in chemokine expression in the ileum of mice and in a murine intestinal epithelial cell line after <i>Cryptosporidium parvum</i> infection. <a href="#">Infect Immun. 70: 2090-9.</a></li> <li>Sato, J. <i>et al.</i> (2003) The fibrinolytic system in dissemination and matrix protein deposition during a mycobacterium infection. <a href="#">Am J Pathol. 163: 517-31.</a></li> <li>Chen, Z. <i>et al.</i> (2004) Evidence for a role of macrophage migration inhibitory factor in vascular disease. <a href="#">Arterioscler Thromb Vasc Biol. 24: 709-14.</a></li> </ol>

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**Storage**

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA1212A647\)](#)

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