

## Datasheet: MCA771GT

**BATCH NUMBER 173235**

<b>Description:</b>	RAT ANTI MOUSE Ly-6B.2 ALLOANTIGEN
<b>Specificity:</b>	Ly-6B.2 ALLOANTIGEN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	7/4
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	25 µg

## 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	▪			1/50 - 1/100
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			
Immunofluorescence	▪			

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 - liquid
<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 Stabilisers</b>	0.09% Sodium Azide

<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Cultured bone marrow cells
<b>RRID</b>	AB_1102794
<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</i></li> </ol>

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<b>Storage</b>	This product is shipped at ambient temperature. Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA771GT">https://www.bio-rad-antibodies.com/SDS/MCA771GT</a>
<b>Regulatory</b>	For research purposes only

## Related Products

## Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight@800</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@800</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>

## Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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