

# Datasheet: MCA771PEB BATCH NUMBER 154616

Description:	RAT ANTI MOUSE Ly-6B.2 ALLOANTIGEN:RPE		
Specificity:	Ly-6B.2 ALLOANTIGEN		
Format:	RPE		
Product Type:	Monoclonal Antibody		
Clone:	7/4		
lsotype:	lgG2a		
Quantity:	500 TESTS		

# **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 <u>www.bio-rad-antibodies.com/protocols</u> .						
		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 a guide only. It is recommended that the user titrates the antibody for use their own system using appropriate negative/positive controls.						
Target Species	Mouse						
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized						
Reconstitution	Reconstitute with 5.0ml distilled water						
Max Ex/Em	Fluorophore	Excitation M	lax (nm)	Emission Max (nm)			
	RPE 488nm laser	496		578			
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum A 5% Sucrose	Albumin					

Immunogen	Cultured bone marrow cells
RRID	AB_567163
Fusion Partners	Spleen cells from AO rats were fused with cells from the Y3 Ag1.2.3 rat myeloma cell line.
Specificity	<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 (Rosas <i>et al.</i> 2010). 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 (Rosas <i>et al.</i> 2010).
	In common with other Ly-6 antigens Ly-6B.2 demonstrates a <u>polymorphic</u> expression on inbred mouse strains ( <u>Kimura <i>et al.</i> 1984</u> ). 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 ( <u>Hirsch and Gordon 1982</u> ).
	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 ( <u>Bertoncello <i>et al.</i> 1991</u> ) and the depletion of myeloid cells <i>in vivo</i> ( <u>Rosas <i>et al.</i> 2010</u> ).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
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Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.
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	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.
Guarantee	12 months from date of despatch
Health And Safety	Material Safety Datasheet documentation #20487 available at:
Information	https://www.bio-rad-antibodies.com/SDS/MCA771PEB
	20487
Regulatory	For research purposes only

## **Related Products**

### **Recommended Negative Controls**

RAT IgG2a NEGATIVE CONTROL:RPE (MCA1212PE)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	id.com	Email: antibody_sales_uk@bio-ra	d.com	Email: antibody_sales_de@bio-rad.com

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