

Datasheet: MCA771PET

BATCH NUMBER 1701

Description:	RAT ANTI MOUSE Ly-6B.2 ALLOANTIGEN:RPE
Specificity:	Ly-6B.2 ALLOANTIGEN
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	7/4
Isotype:	IgG2a
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				Neat

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.

Target Species	Mouse			
Product Form	Purified IgG conjugat	ted to R. Phycoerythrin	(RPE) - lyophilised	
Reconstitution	Reconstitute with 0.2	5 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	
	RPE 488nm laser	496	578	
Preparation	Purified IgG prepared supernatant	d by affinity chromatog	raphy on Protein G from tissue cultu	
Buffer Solution	Phosphate buffered s	saline		
Preservative	0.09% Sodium Azide			
Stabilisers	1% Bovine Serum Albumin			
	5% Sucrose			

Immunogen	Cultured bone marrow cells
RRID	AB_1102793
Fusion Partners	Spleen cells from AO rats were fused with cells from the Y3 Ag1.2.3 rat myeloma cell line.
Specificity	Rat anti Mouse Ly-6B.2 monoclonal antibody, clone 7/4 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 et al. 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 et al.2010).
	In common with other Ly-6 antigens Ly-6B.2 demonstrates a <u>polymorphic</u> expression on inbred mouse strains (<u>Kimura et al. 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 et al. 1991</u>) and the depletion of myeloid cells <i>in vivo</i> (<u>Rosas et al. 2010</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	 Rosas, M. <i>et al.</i> (2010) The myeloid 7/4-antigen defines recently generated inflammatory macrophages and is synonymous with Ly-6B. <u>J Leukoc Biol. 88 (1): 169-80.</u> Gordon, S. <i>et al.</i> (1992) Antigen markers of macrophage differentiation in murine tissues. <u>Curr Top Microbiol Immunol. 181: 1-37.</u> Word, R.A. <i>et al.</i> (2005) Transgene insertion on mouse chromosome 6 impairs function
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Storage

Prior to reconstitution store at +4°C.

After reconstitution 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.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #20487 available at: https://www.bio-rad-antibodies.com/SDS/MCA771PET 20487
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

RAT IgG2a NEGATIVE CONTROL:RPE (MCA1212PE)

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

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 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
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Printed on 08 Apr 2024

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