

# Datasheet: MCA87P750T

Description:	MOUSE ANTI HUMAN CD45:RPE-Alexa Fluor® 750			
Specificity:	CD45			
Other names:	LCA			
Format:	RPE-ALEXA FLUOR® 750			
Product Type:	Monoclonal Antibody			
Clone:	F10-89-4			
lsotype:	lgG2a			
Quantity:	25 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 www.bio-rad-antibodies.com/protocols.							
	Flaur Or tamatur	Yes N	lo Not Determined	Suggested Dilution				
	Flow Cytometry     Neat       Where this antibody has not been tested for use in a particular technique this does not necessarily							
	-							
			ested working dilutions are					
	recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.							
Target Species	Human							
Species Cross	Reacts with: Horse							
Reactivity	<b>N.B.</b> Antibody reactivity and working conditions may vary between species.							
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - Alexa Fluor® 750 - lyophilized							
Reconstitution	Reconstitute in 0.25 ml disilled water							
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)					
	RPE-Alexa Fluor®750 488nm laser	496	779					
	RPE-Alexa Fluor®750 561nm laser	546	779					
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant							
Buffer Solution	Phosphate buffered saline							
Preservative	0.09% Sodium Azide							
Stabilisers	1% Bovine Serum	1% Bovine Serum Albumin						
	5% Sucrose	5% Sucrose						

Immunogen	Human T lymphocytes.
External Database Links	UniProt: <u>P08575</u> <u>Related reagents</u> Entrez Gene: <u>5788</u> PTPRC <u>Related reagents</u>
Synonyms	CD45
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.
Specificity	Mouse anti Human CD45 antibody, clone F10-89-4 recognizes the human CD45 cell surface antigen, also known as the leucocyte common antigen (LCA). CD45 is a complex molecule existing in a number of isoforms.
	Antibodies recognising a common epitope on all of these isoforms are termed CD45 whilst those recognising only individual isoforms are termed CD45RA or CD45RO etc.
	Mouse anti Human CD45 antibody, clone F10-89-4 reacts with all forms of CD45 expressed by all haematopoietic cells, except erythrocytes, having a higher level of expression on lymphocytes than on granulocytes.
	Mouse anti Human CD45 antibody, clone F10-89-4 is routinely tested in flow cytometry on human peripheral blood leucocytes
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells or 100ul whole blood
References	<ol> <li>Dalchau, R. <i>et al.</i> (1980) Monoclonal antibody to a human leukocyte-specific membrane glycoprotein probably homologous to the leukocyte-common (L-C) antigen of the rat. <u>Eur J Immunol. 10 (10)</u>: 737-44.</li> <li>Quenby, S <i>et al.</i> (1999) Pre-implantation endometrial leukocytes in women with recurrent miscarriage. <u>Human Reprod. 14(9):2386-2391.</u></li> <li>Hauser, P.V. <i>et al.</i> (2010) Stem cells derived from human amniotic fluid contribute to acute kidney injury recovery. <u>Am J Pathol. 177: 2011-21.</u></li> <li>Mallam, E. <i>et al.</i> (2010) Characterization of <i>in vitro</i> expanded bone marrow-derived mesenchymal stem cells from patients with multiple sclerosis. <u>Mult Scler. 16: 909-18.</u></li> <li>Marrinucci, D. <i>et al.</i> (2010) Cytomorphology of circulating colorectal tumor cells: a small case series. <u>J Oncol. 2010</u>: 861341.</li> <li>Kazane, S.A. <i>et al.</i> (2012) Site-specific DNA-antibody conjugates for specific and sensitive immuno-PCR. <u>Proc Natl Acad Sci U S A. 109: 3731-6.</u></li> <li>Paul, G. <i>et al.</i> (2015) GLI2 inhibition abrogates human leukemia stem cell dormancy. J <u>Transl Med. 13: 98.</u></li> <li>Gunawardene, P. <i>et al.</i> (2015) Association Between Circulating Osteogenic Progenitor Cells and Disability and Frailty in Older Persons: The Nepean Osteoporosis and Frailty Study. <u>J Gerontol A Biol Sci Med Sci. pii: glv190.</u></li> <li>Gogoi P <i>et al.</i> (2016) Development of an Automated and Sensitive Microfluidic Device for Capturing and Characterizing Circulating Tumor Cells (CTCs) from Clinical Blood Samples. <u>PLoS One. 11 (1): e0147400.</u></li> </ol>

Regulatory
Health And Safety Information
Acknowledgements
Shelf Life
Storage

## **Related Products**

### **Recommended Useful Reagents**

### HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

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-rac	d.com	Email: antibody_sales_uk@bio-ra	d.com	Email: antibody_sales_de@bio-rad.com

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#### Printed on 06 Dec 2018

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