

# Datasheet: MCA87A488T

Description:	MOUSE ANTI HUMAN CD45:Alexa Fluor® 488
Specificity:	CD45
Other names:	LCA
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	F10-89-4
Isotype:	lgG2a
Quantity:	25 TESTS/0.25ml

## **Product Details**

Applications	This product has been derived from testing wi communications from t information. For genera rad-antibodies.com/pro	thin our labora the originators al protocol rec	atories, <sub> </sub> . Please	peer-reviewed publica refer to references in	itions or personal ndicated for further
		Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry				Neat
	Where this antibody han necessarily exclude its a guide only. It is recor system using appropria	use in such p nmended that	rocedur the use	es. Suggested workin r titrates the antibody	ng dilutions are given as
Target Species	Human				
Product Form	Purified IgG conjugated to Alexa Fluor® 488 - liquid				
Max Ex/Em	Fluorophore	Excitation Ma	x (nm)	Emission Max (nm)	
	Alexa Fluor®488	495		519	
Preparation	Purified IgG prepared I supernatant	by affinity chro	matogra	aphy on Protein A fror	m tissue culture
Buffer Solution	Phosphate buffered saline				
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum A	Albumin			
Approx. Protein Concentrations	IgG concentration 0.05	i mg/ml			

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
RRID	AB_1102052
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS-1 myeloma cell line.
Specificity	<b>Mouse anti Human CD45 antibody, clone F10-89-4</b> recognizes the human CD45 cell surface antigen, also known as leucocyte common antigen (LCA). CD45 is a complex molecule existing in a number of isoforms.
	Antibodies recognizing a common epitope on all of these isoforms are termed CD45 whilst those recognizing 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. It is routinely tested in flow cytometry on human peripheral blood leucocytes.
	Mouse anti Human CD45 antibody, clone F10-89-4, has been validated for use on the <u>Genesis Cell Isolation System with the CelSelect Slide<sup>TM</sup> technology</u> .
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells or 100ul whole blood.
References	<ol> <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: 861341.</u></li> <li>Paul, G. <i>et al.</i> (2012) The adult human brain harbors multipotent perivascular mesenchymal stem cells. <u>PLoS One. 7: e35577.</u></li> <li>De Schauwer, C. <i>et al.</i> (2012) In search for cross-reactivity to immunophenotype equine mesenchymal stromal cells by multicolor flow cytometry. <u>Cytometry A. 81 (4): 312-23.</u></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>Spaas, J.H. <i>et al.</i> (2013) Culture and characterisation of equine peripheral blood</li> </ol>

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Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.
Guarantee	12 months from date of despatch
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA87A488T
Regulatory	For research purposes only

## **Related Products**

### **Recommended Negative Controls**

MOUSE IgG2a NEGATIVE CONTROL:Alexa Fluor® 488 (MCA929A488)

### **Recommended Useful Reagents**

HUMAN SEROBLOCK (BUF070A)

#### Product inquiries: 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 'M384642:210513'

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