

Datasheet: MCA6115PE

Description:	MOUSE ANTI HUMAN CD11a:RPE
Specificity:	CD11a
Other names:	INTEGRIN ALPHA L CHAIN, LFA-1
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	MEM-25
Isotype:	IgG1
Quantity:	100 TESTS/2ml

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 product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Human		
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
	RPE 561nm laser	546	578
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	<0.1% Sodium Azide (NaN ₃)		
Stabilisers	0.2% Bovine Serum Albumin		
Immunogen	Leucocytes from a patient suffering from a LGL-type leukemia		
External Database Links	UniProt: P20701 Related reagents		
	Entrez Gene: 3683 ITGAL Related reagents		

Synonyms

CD11A

Specificity

Mouse anti Human CD11a antibody, clone MEM-25 recognizes the [integrin alphaL subunit](#), a 170-180 kDa type I transmembrane glycoprotein that associates with CD18 to form the leucocyte function-associated antigen-1, an alphaLbeta2 integrin expressed at the surface of all human leukocyte.

LFA-1 is a receptor for ICAMs, JAM-1 and F11R. Its interaction with endothelial ligands, such as ICAM-1 and JAM-1 is responsible for leukocyte arrest and extravasation ([Osterman et al.2002](#)). In addition to its role in leukocyte adhesion and transmigration, LFA-1 is involved in T cell differentiation ([Verma et al. 2016](#), [Verman and Kelleher 2017](#)) and is required for the effective lysis of infected cells by cytotoxic T cells ([Anikeeva et al. 2005](#), [Pontes Ferreira et al. 2017](#)). LFA-1 also contributes to NK cell cytotoxicity ([Domingo et al. 2004](#)) and participates to the clearance of apoptotic neutrophils by macrophages ([Kristóf et al. 2013](#)). The interaction of LFA-1 with ICAM-1 is the target of Lifitegrast, a drug approved for the treatment of Dry Eye Disease ([Abidi et al. 2016](#)).

Mouse anti Human CD11 antibody, clone MEM-25 inhibits the cytotoxic activity of NK cells ([Bazil et al. 1990](#)).

Purity

>95% by SDS PAGE

Flow CytometryUse 20ul of the undiluted reagent to label 1x10⁶ cells in 100ul**Storage**

Store at +4°C. DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

North & South Tel: +1 800 265 7376**America** Fax: +1 919 878 3751Email: antibody_sales_us@bio-rad.com**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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