

## Datasheet: MCA6115APC

**BATCH NUMBER 164985**

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

### 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](http://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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to Allophycocyanin (APC) - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	APC	650	661
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )		
<b>Stabilisers</b>	0.2% Bovine Serum Albumin		
<b>Immunogen</b>	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**

&gt;95% by SDS PAGE

**Flow Cytometry**Use 10ul of the undiluted product to label  $1 \times 10^6$  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**

Guaranteed for 12 months from the date of despatch or until the date of expiry, whichever comes first. Please see label for expiry date.

**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6115APC>  
10041

**Regulatory**

For research purposes only

## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:APC \(MCA928APC\)](#)

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To  
find a

batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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