

# Datasheet: MCA6115

**BATCH NUMBER 149827**

|                      |                               |
|----------------------|-------------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD11a        |
| <b>Specificity:</b>  | CD11a                         |
| <b>Other names:</b>  | INTEGRIN ALPHA L CHAIN, LFA-1 |
| <b>Format:</b>       | Purified                      |
| <b>Product Type:</b> | Monoclonal Antibody           |
| <b>Clone:</b>        | MEM-25                        |
| <b>Isotype:</b>      | IgG1                          |
| <b>Quantity:</b>     | 0.1 mg                        |

## 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 - 1/50        |
| Immunoprecipitation (a) | ▪   |    |                |                    |
| Functional Assays       | ▪   |    |                |                    |

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.

(a) Tested by a third party and information provided to Bio-Rad.

|                                 |   |
|---------------------------------|---|
| <b>Target Species</b>           | Human   |
| <b>Product Form</b>             | Purified IgG - liquid   |
| <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 Stabilisers</b> | <0.1% Sodium Azide (NaN <sub>3</sub> )  |
| <b>Approx. Protein</b>          | IgG concentration 1.0 mg/ml   |

## Concentrations

|           |  |
|-----------|--|
| 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 Cytometry

Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul

## Storage

Store at +4°C. DO NOT FREEZE.  
This product should be stored undiluted.

## Guarantee

12 months from date of despatch

## Health And Safety Information

Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA6115>  
10040

## Regulatory

For research purposes only

## Related Products

### Recommended Secondary Antibodies

|   |   |
|---|---|
| Goat Anti Mouse IgG (STAR77...)         | <a href="#">HRP</a>   |
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>   |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">Alk. Phos.</a> , <a href="#">HRP</a>  |
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>   |
| Goat Anti Mouse IgG (Fc) (STAR120...)   | <a href="#">FITC</a> , <a href="#">HRP</a>  |
| Rabbit Anti Mouse IgG (STAR13...)       | <a href="#">HRP</a>   |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</a>  |
| Goat Anti Mouse IgG (H/L) (STAR117...)  | <a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> ,<br><a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> ,<br><a href="#">FITC</a> , <a href="#">HRP</a> |
| Rabbit Anti Mouse IgG (STAR9...)        | <a href="#">FITC</a>  |

## Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
|----------------------------------|---|------------------|---|---------------|---|

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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