

## Datasheet: MCA2245A647

|                      |                                      |
|----------------------|--------------------------------------|
| <b>Description:</b>  | RAT ANTI MOUSE CD41:Alexa Fluor® 647 |
| <b>Specificity:</b>  | CD41                                 |
| <b>Other names:</b>  | INTEGRIN ALPHA IIB                   |
| <b>Format:</b>       | ALEXA FLUOR® 647                     |
| <b>Product Type:</b> | Monoclonal Antibody                  |
| <b>Clone:</b>        | MWReg30                              |
| <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>                 | Mouse   |                            |                          |
| <b>Product Form</b>                   | Purified IgG conjugated to Alexa Fluor® 647 - liquid  |                            |                          |
| <b>Max Ex/Em</b>                      | <b>Fluorophore</b>  | <b>Excitation Max (nm)</b> | <b>Emission Max (nm)</b> |
|                                       | Alexa Fluor®647   | 650                        | 665                      |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |                            |                          |
| <b>Buffer Solution</b>                | Phosphate buffered saline   |                            |                          |
| <b>Preservative Stabilisers</b>       | 0.09% sodium azide (NaN <sub>3</sub> )<br>1% bovine serum albumin                             |                            |                          |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.05 mg/ml  |                            |                          |

Immunogen Purified murine platelets

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External Database

Links

UniProt:

[Q9QUM0](#) [Related reagents](#)

Entrez Gene:

[16399](#) Itga2b [Related reagents](#)

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Specificity

**Rat anti Mouse CD41 antibody, clone MWReg30** recognizes the mouse integrin alpha IIb subunit CD41. CD41 is a ~125 kDa single pass type 1 transmembrane glycoprotein expressed by platelets, megakaryocytes ([Zhang et al. 2007](#)), mast cells ([Berlanga et al. 2005](#)), and hematopoietic progenitors ([Mitjavila-Garcia et al. 2002](#)). CD41 forms a heterodimer with [CD61](#).

The CD41/CD61 complex is important for platelet adhesion and aggregation ([Patel et al. 2003](#)) acting as a receptor for many extracellular matrix proteins including fibronectin, thrombospondin and vitronectin ([Weisel et al. 1992](#)).

Rat anti mouse CD41, clone MWReg30 has been reported to inhibit PMA induced aggregation *in vitro* and to induce hypothermia *in vivo* ([Nieswandt et al. 1999](#)).

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Flow Cytometry

Use 10µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl.

The Fc region of monoclonal antibodies may bind to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ([BUF041A/BUF041B](#)).

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References

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[Metab. 36 \(3\): 323-30.](#)

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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.

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**Guarantee**

12 months from date of despatch

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**Acknowledgements**

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**Health And Safety Information**      Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2245A647>  
10041

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

**North & South**      Tel: +1 800 265 7376

**America**              Fax: +1 919 878 3751

                                 Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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