

# Datasheet: MCA2245SBUV575

**BATCH NUMBER 64630838**

|                      |                                                |
|----------------------|------------------------------------------------|
| <b>Description:</b>  | RAT ANTI MOUSE CD41:StarBright UltraViolet 575 |
| <b>Specificity:</b>  | CD41                                           |
| <b>Other names:</b>  | INTEGRIN ALPHA IIB                             |
| <b>Format:</b>       | StarBright UltraViolet 575                     |
| <b>Product Type:</b> | Monoclonal Antibody                            |
| <b>Clone:</b>        | MWReg30                                        |
| <b>Isotype:</b>      | IgG1                                           |
| <b>Quantity:</b>     | 100 TESTS/0.5ml                                |

## 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.

|                          |                                                                                               |                     |                   |
|--------------------------|-----------------------------------------------------------------------------------------------|---------------------|-------------------|
| Target Species           | Mouse                                                                                         |                     |                   |
| Product Form             | Purified IgG conjugated to StarBright UltraViolet 575 - liquid                                |                     |                   |
| Max Ex/Em                | Fluorophore                                                                                   | Excitation Max (nm) | Emission Max (nm) |
|                          | StarBright UltraViolet 575                                                                    | 340                 | 569               |
| Preparation              | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |                     |                   |
| Buffer Solution          | Phosphate buffered saline                                                                     |                     |                   |
| Preservative Stabilisers | 0.09% Sodium Azide (NaN <sub>3</sub> )<br>1% Bovine Serum Albumin<br>0.1% Pluronic F68        |                     |                   |

0.1% PEG 3350  
0.05% Tween 20

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|           |                           |
|-----------|---------------------------|
| 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 5µl of the suggested working dilution to label 10<sup>6</sup> cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application.

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**References**

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|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                       | Store at +4°C. DO NOT FREEZE.<br>This product should be stored undiluted.                                                                                                              |
| <b>Guarantee</b>                     | 12 months from date of despatch                                                                                                                                                        |
| <b>Acknowledgements</b>              | This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts                                                                                        |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #20471 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2245SBUV575">https://www.bio-rad-antibodies.com/SDS/MCA2245SBUV575</a> |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                             |

## Related Products

## Recommended Useful Reagents

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

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

Product inquiries: [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)

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