

## Datasheet: MCA2588A647T

|                      |                                        |
|----------------------|----------------------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD61:Alexa Fluor® 647 |
| <b>Specificity:</b>  | CD61                                   |
| <b>Other names:</b>  | INTEGRIN BETA 3 CHAIN                  |
| <b>Format:</b>       | ALEXA FLUOR® 647                       |
| <b>Product Type:</b> | Monoclonal Antibody                    |
| <b>Clone:</b>        | Y2/51                                  |
| <b>Isotype:</b>      | IgG1                                   |
| <b>Quantity:</b>     | 25 TESTS/0.25ml                        |

## 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 - 1/10        |

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 Alexa Fluor® 647 - liquid                                                                                                        |                   |                     |                   |                 |     |     |  |  |
| Max Ex/Em                      | <table><tr><th>Fluorophore</th><th>Excitation Max (nm)</th><th>Emission Max (nm)</th></tr><tr><td>Alexa Fluor®647</td><td>650</td><td>665</td></tr></table> | Fluorophore       | Excitation Max (nm) | Emission Max (nm) | Alexa Fluor®647 | 650 | 665 |  |  |
| Fluorophore                    | Excitation Max (nm)                                                                                                                                         | Emission Max (nm) |                     |                   |                 |     |     |  |  |
| Alexa Fluor®647                | 650                                                                                                                                                         | 665               |                     |                   |                 |     |     |  |  |
| Preparation                    | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant                                                               |                   |                     |                   |                 |     |     |  |  |
| Buffer Solution                | Phosphate buffered saline                                                                                                                                   |                   |                     |                   |                 |     |     |  |  |
| Preservative                   | 0.09% Sodium Azide (NaN <sub>3</sub> )                                                                                                                      |                   |                     |                   |                 |     |     |  |  |
| Stabilisers                    | 1% Bovine Serum Albumin                                                                                                                                     |                   |                     |                   |                 |     |     |  |  |
| Approx. Protein Concentrations | IgG concentration 0.05mg/ml                                                                                                                                 |                   |                     |                   |                 |     |     |  |  |
| Immunogen                      | PHA stimulated peripheral blood cells.                                                                                                                      |                   |                     |                   |                 |     |     |  |  |
| External Database Links        | UniProt:<br><a href="#">P05106</a> <a href="#">Related reagents</a>                                                                                         |                   |                     |                   |                 |     |     |  |  |

**Entrez Gene:**[3690](#) ITGB3 [Related reagents](#)

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| <b>Synonyms</b>         | GP3A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Fusion Partners</b>  | Spleen cells from immunised Balb/c mice were fused with cells of the NS1 myeloma cell line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Specificity</b>      | <p><b>Mouse anti Human CD61 antibody, clone Y2/51</b> recognizes CD61, a ~105 kDa glycoprotein, also known as integrin beta 3 chain. This molecule associates with either the alpha IIb integrin (CD41) or the alpha V integrin (CD51) at the cell surface. CD61 is expressed on platelets and megakaryocytes in association with CD41, and on endothelial cells, monocytes, platelets and osteoclasts in association with CD51.</p> <p>CD61 is a receptor for fibrinogen, fibronectin, vWF, vitronectin and thrombospondin.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Flow Cytometry</b>   | Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>References</b>       | <ol style="list-style-type: none"><li>1. Phillips, D.R. <i>et al.</i> (1991) GPIIb-IIIa: the responsive integrin. <a href="#">Cell. 65 (3): 359-62.</a></li><li>2. Hynes, R.O. (1992) Integrins: versatility, modulation, and signaling in cell adhesion. <a href="#">Cell. 69 (1): 11-25.</a></li><li>3. Michelson, A. D. <i>et al.</i> (1995) A panel of platelet mAb for the study of haemostasis and thrombosis in baboons. Leucocyte Typing V. Oxford University Press p 1230-1.</li><li>4. Gatter, K.C. <i>et al.</i> (1988) The immunohistological detection of platelets, megakaryocytes and thrombi in routinely processed specimens. <a href="#">Histopathology. 13 (3): 257-67.</a></li><li>5. Kamat, V. <i>et al.</i> (2015) Microfluidic assessment of functional culture-derived platelets in human thrombi under flow. <a href="#">Exp Hematol. 43 (10): 891-900.e4.</a></li><li>6. Ogino, T. <i>et al.</i> (2014) Erythroid and megakaryocytic differentiation of K562 erythroleukemic cells by monochloramine. <a href="#">Free Radic Res. 48 (3): 292-302.</a></li><li>7. Tehrani, S. <i>et al.</i> (2010) Atorvastatin has antithrombotic effects in patients with type 1 diabetes and dyslipidemia. <a href="#">Thromb Res. 126 (3): e225-31.</a></li><li>8. Dircks, B.H. <i>et al.</i> (2012) Platelet-neutrophil aggregate formation in blood samples from dogs with systemic inflammatory disorders. <a href="#">Am J Vet Res. 73 (7): 939-45.</a></li><li>9. Comazzi, S. <i>et al.</i> (2010) Acute megakaryoblastic leukemia in dogs: a report of three cases and review of the literature. <a href="#">J Am Anim Hosp Assoc. 46 (5): 327-35.</a></li><li>10. Jackson, J.W. <i>et al.</i> (2016) Novel Antiplatelet Activity of Minocycline Involves Inhibition of MLK3-p38 Mitogen Activated Protein Kinase Axis. <a href="#">PLoS One. 11 (6): e0157115.</a></li><li>11. Chen, C.P. <i>et al.</i> (2018) Oxidative stress reduces trophoblast FOXO1 and integrin <math>\beta</math>3 expression that inhibits cell motility. <a href="#">Free Radic Biol Med. Jun 07 [Epub ahead of print].</a></li></ol> |
| <b>Storage</b>          | <p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Shelf Life</b>       | 18 months from date of despatch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10041 available at:<br>10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a> |
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|-------------------|----------------------------|
| <b>Regulatory</b> | For research purposes only |
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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA928A647\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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