

## Datasheet: MCA1095GA

**BATCH NUMBER 168537**

|                      |                            |
|----------------------|----------------------------|
| <b>Description:</b>  | MOUSE ANTI SHEEP CD41/CD61 |
| <b>Specificity:</b>  | CD41/CD61                  |
| <b>Other names:</b>  | GPIIb-IIIa                 |
| <b>Format:</b>       | Purified                   |
| <b>Product Type:</b> | Monoclonal Antibody        |
| <b>Clone:</b>        | CO.35E4                    |
| <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             | ▪   |    |                | 1/50 - 1/200       |
| Immunohistology - Frozen   |     |    | ▪              |                    |
| Immunohistology - Paraffin |     |    | ▪              |                    |
| ELISA                      | ▪   |    |                |                    |
| Immunoprecipitation        | ▪   |    |                |                    |
| Western Blotting           |     |    | ▪              |                    |

Where this antibody 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 antibody for use in his/her own system using appropriate negative/positive controls.

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|---------------------------------|---|
| <b>Target Species</b>           | Sheep   |
| <b>Species Cross Reactivity</b> | <p>Reacts with: Goat, Cat, Rabbit, Dog, Horse, Bovine</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p> |
| <b>Product Form</b>             | Purified IgG - liquid   |
| <b>Preparation</b>              | Purified IgG prepared by affinity chromatography on Protein A from tissue culture   |

supernatant

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|------------------------|---------------------------|
| <b>Buffer Solution</b> | Phosphate buffered saline |
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| <b>Preservative Stabilisers</b> | 0.09% sodium azide (NaN <sub>3</sub> ) |
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| <b>Carrier Free</b> | Yes |
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| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0 mg/ml |
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| <b>Immunogen</b> | Sheep leucocytes. |
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| <b>Fusion Partners</b> | Spleen cells from immunized mice were fused the cells of the SP2-0/Ag14 mouse myeloma cell line. |
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| <b>Specificity</b> | <b>Mouse anti Sheep CD41/CD61 antibody, clone CO.35E4</b> recognizes ruminant CD41/CD61, also known as GpIIb/IIIa. CD41/CD61 is a calcium-complex dependent heterodimer and is expressed almost exclusively on platelets and on their precursors, the megakaryocytes. This complex is an activation-dependent receptor for RGD (Arg-Gly-Asp)-containing glycoproteins such as fibrinogen, fibronectin, von Willebrand factor, thrombospondin and vitronectin. It plays a central role in platelet aggregation and haemostasis. |
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| <b>Flow Cytometry</b> | Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl |
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|-------------------|---|
| <b>References</b> | <ol style="list-style-type: none"><li>1. Pintado, C.O. <i>et al.</i> (1995) Characterisation of a membrane receptor on ruminants and equine platelets and peripheral blood leukocytes similar to the human integrin receptor glycoprotein IIb/IIIa (CD41/61). <a href="#">Vet Immunol Immunopathol. 44 (3-4): 359-68.</a></li><li>2. Brodersen, R. <i>et al.</i> (1998) Analysis of the immunological cross reactivities of 213 well characterized monoclonal antibodies with specificities against various leucocyte surface antigens of human and 11 animal species. <a href="#">Vet Immunol Immunopathol. 64 (1): 1-13.</a></li><li>3. Lalko, C.C. <i>et al.</i> (2003) Equine platelet CD62P (P-selectin) expression: a phenotypic and morphologic study. <a href="#">Vet Immunol Immunopathol. 91 (2): 119-34.</a></li><li>4. Major, T.C. <i>et al.</i> (2010) The attenuation of platelet and monocyte activation in a rabbit model of extracorporeal circulation by a nitric oxide releasing polymer. <a href="#">Biomaterials. 31: 2736-45.</a></li><li>5. Brainard, B.M. <i>et al.</i> (2012) Treatment with aspirin or clopidogrel does not affect equine platelet expression of P selectin or platelet-neutrophil aggregates. <a href="#">Vet Immunol Immunopathol. 149: 119-25.</a></li><li>6. Iwaszko-Simonik, A. <i>et al.</i> (2015) Expression of surface platelet receptors (CD62P and CD41/61) in horses with recurrent airway obstruction (RAO). <a href="#">Vet Immunol Immunopathol. 164 (1-2): 87-92.</a></li><li>7. Finding, E.J.T. <i>et al.</i> (2018) Cell specific microvesicles vary with season and disease predisposition in healthy and previously laminitic ponies. <a href="#">Vet Immunol Immunopathol. 202: 85-92.</a></li><li>8. Theuerkauf, K. <i>et al.</i> (2022) Activated platelets and platelet-leukocyte aggregates in the</li></ol> |
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equine systemic inflammatory response syndrome. [J Vet Diagn Invest. 10406387221077969.](#)

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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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1095GA>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

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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://www.bio-rad-antibodies.com/datasheets)

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