

# Datasheet: MCA740SBUV740

**BATCH NUMBER 64640060**

|                      |                                                   |
|----------------------|---------------------------------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD42b:StarBright UltraViolet 740 |
| <b>Specificity:</b>  | CD42b                                             |
| <b>Other names:</b>  | GPIB-ALPHA                                        |
| <b>Format:</b>       | StarBright UltraViolet 740                        |
| <b>Product Type:</b> | Monoclonal Antibody                               |
| <b>Clone:</b>        | AK2                                               |
| <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  | Human                                                                                         |                     |                   |
| Product Form    | Purified IgG conjugated to StarBright UltraViolet 740 - liquid                                |                     |                   |
| Max Ex/Em       | Fluorophore                                                                                   | Excitation Max (nm) | Emission Max (nm) |
|                 | StarBright UltraViolet 740                                                                    | 344                 | 743               |
| Preparation     | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant |                     |                   |
| Buffer Solution | Phosphate buffered saline                                                                     |                     |                   |
| Preservative    | 0.09% Sodium Azide (NaN <sub>3</sub> )                                                        |                     |                   |
| Stabilisers     | 1% Bovine Serum Albumin                                                                       |                     |                   |
|                 | 0.1% Pluronic F68                                                                             |                     |                   |

0.1% PEG 3350

0.05% Tween 20

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**External Database  
Links**

**UniProt:**

[P07359](#)

[Related reagents](#)

**Entrez Gene:**

[2811](#)

GP1BA

[Related reagents](#)

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**Specificity**

**Mouse anti Human CD42b antibody, clone AK2** recognizes the human CD42b cell surface antigen, also known as platelet glycoprotein GP1B.

CD42b is expressed by platelets and megakaryocytes. Clone AK2 has been reported to block the binding of von Willebrand Factor (VWF) to platelets.

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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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15. Michalska-Jakubus, M. *et al.* (2017) Plasma endothelial microparticles reflect the extent of capillaroscopic alterations and correlate with the severity of skin involvement in systemic sclerosis. [Microvasc Res. 110: 24-31.](#)
16. Ralph, A. *et al.* (2016) Computational Tracking of Shear-Mediated Platelet Interactions with von Willebrand Factor. [Cardiovasc Eng Technol. 7 \(4\): 389-405.](#)
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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/MCA740SBUV740">https://www.bio-rad-antibodies.com/SDS/MCA740SBUV740</a> |
| <b>Regulatory</b>                    | For research purposes only                                                                                                                                                           |

## Related Products

### Recommended Useful Reagents

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

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

**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)

'M433730:241127'

