# Datasheet: MCA74SBUV700

## BATCH NUMBER 64682976

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| **Description:** | RAT ANTI MOUSE CD11b:StarBright UltraViolet 700 |
| **Specificity:** | CD11b |
| **Other names:** | INTEGRIN ALPHA M CHAIN, MAC-1 |
| **Format:** | StarBright UltraViolet 700 |
| **Product Type:** | Monoclonal Antibody |
| **Clone:** | M1/70.15 |
| **Isotype:** | IgG2b |
| **Quantity:** | 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.

| | 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

**Species Cross Reactivity**

Reacts with: Human, Rabbit

**N.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.

**Product Form**

Purified IgG conjugated to StarBright UltraViolet 700 - liquid

**Max Ex/Em**

| Fluorophore | Excitation Max (nm) | Emission Max (nm) |
|---|---|---|
| StarBright UltraViolet 700 | 340 | 700 |

**Preparation**

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

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| **Buffer Solution** | Phosphate buffered saline |
| **Preservative Stabilisers** | 0.09% Sodium Azide ($NaN_3$)<br>1% Bovine Serum Albumin<br>0.1% Pluronic F68<br>0.1% PEG 3350<br>0.05% Tween 20 |
| **Approx. Protein Concentrations** | For information on the concentration of our StarBright Dye conjugated reagents please visit our FAQ page. |
| **Immunogen** | T cell enriched splenocytes from B10 mice. |
| **External Database Links** | **UniProt:**<br>P05555 Related reagents<br><br>**Entrez Gene:**<br>16409 Itgam Related reagents |
| **Fusion Partners** | Spleen cells from immunized DA rats were fused with cells of the NS1/1.Ag4.1 mouse myeloma cell line. |
| **Specificity** | **Rat anti Mouse CD11b antibody, clone M1/70.15** recognizes the murine CD11b cell surface antigen also known as the alpha M integrin chain or MAC-1, a differentiation antigen expressed by granulocytes, monocytes, NK cells and tissue macrophages.<br><br>The expression of CD11b increases during monocyte maturation and expression levels vary on tissue macrophages. Peritoneal macrophages are reported to express higher levels of CD11b than splenic macrophages.<br><br>Rat anti Mouse CD11b antibody, clone M1/70.15 has been reported to block iC3b binding to its receptor (Beller *et al.* 1982).<br><br>Rat anti Mouse CD11b antibody, clone M1/70.15 has been reported to as being suitable for use on PLP fixed paraffin embedded tissue but has not been tested for use on formalin fixed tissue (Whiteland *et al.* 1995).<br><br>This product is routinely tested in flow cytometry on mouse peritoneal macrophages. |
| **Flow Cytometry** | Use 5µl of the suggested working dilution to label $10^6$ cells in 100µl. Best practices suggest a 5 minutes centrifugation at 6,000g prior to sample application. |
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| **Storage** | Store at +4°C. DO NOT FREEZE.<br>This product should be stored undiluted. |
| **Guarantee** | 12 months from date of despatch |
| **Acknowledgements** | This product is covered by U.S. Patent No. 10,150,841 and related U.S. and foreign counterparts |
| **Health And Safety Information** | Material Safety Datasheet documentation #20471 available at:<br>https://www.bio-rad-antibodies.com/SDS/MCA74SBUV700 |
| **Regulatory** | 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**

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