# Datasheet: MCA1590SBUV575

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| **Description:** | MOUSE ANTI HUMAN CD40:StarBright UltraViolet 575 |
| **Specificity:** | CD40 |
| **Format:** | StarBright UltraViolet 575 |
| **Product Type:** | Monoclonal Antibody |
| **Clone:** | LOB7/6 |
| **Isotype:** | IgG2a |
| **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 (1) | ▪ | | | 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.

(1)**Staining at lower temperatures generally requires longer incubation to reach antibody binding equilibrium, and this effect is more pronounced for StarBright Dyes due to their larger size. For optimum staining, Bio-Rad recommends incubating samples either overnight at 4°C or 1 hour at room temperature.**

**Target Species**

Human

**Species Cross Reactivity**

Reacts with: Dog

**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 575 - liquid

**Max Ex/Em**

| Fluorophore | Excitation Max (nm) | Emission Max (nm) |
|---|---|---|
| StarBright UltraViolet 575 | 340 | 569 |

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| **Preparation** | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant |
| **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** | CD40 Ig(Fc) fusion protein containing the EC region of human CD40 and Fc region of human IgG. |
| **External Database Links** | **UniProt:**<br>P25942 Related reagents<br><br>**Entrez Gene:**<br>958 CD40 Related reagents |
| **Synonyms** | TNFRSF5 |
| **Fusion Partners** | Spleen cells from immunised BALB/c mice were fused with cells of the mouse NS1 myeloma cell line. |
| **Specificity** | **Mouse anti Human CD40 antibody, clone LOB7/6** recognizes the human CD40 cell surface antigen, a 48kDa glycoprotein expressed by B lymphocytes and weakly by some monocytes.<br><br>CD40 is involved in the process of B cell selection in germinal centres and is vital in T cell-B cell interactions. |
| **Flow Cytometry** | Use 5µl of the suggested working dilution to label $0.5x10^6$ cells in 100µl. Best practices suggest a 5 min centrifugation at 6,000g prior to sample application. |
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| **Storage** | This product is shipped at ambient temperature.<br>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/MCA1590SBUV575 |
| **Regulatory** | For research purposes only |

## Related Products

### Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A)
HUMAN SEROBLOCK (BUF070B)

**Product inquiries: 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
'M451815:260710'

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