

# Datasheet: FCSC815C

**BATCH NUMBER 174753**

|                      |                                     |
|----------------------|-------------------------------------|
| <b>Description:</b>  | QUANTUM™ SIMPLY CELLULAR® MOUSE IgG |
| <b>Name:</b>         | QUANTUM™ SIMPLY CELLULAR® IgG       |
| <b>Format:</b>       | Flow Cytometry Calibration Reagent  |
| <b>Product Type:</b> | Accessory Reagent                   |
| <b>Quantity:</b>     | 280 TESTS                           |

## 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 | ▪   |    |                |                    |

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.

|                                 |                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Buffer Solution</b>          | Borate buffered saline.                                                                            |
| <b>Preservative Stabilisers</b> | 0.1% Bovine Serum Albumin<br>0.05% Tween 20<br>10mM EDTA<br>0.09% Sodium Azide (NaN <sub>3</sub> ) |
| <b>RRID</b>                     | AB_10062101                                                                                        |

**Product Information** **Quantum™ Simply Cellular® Mouse IgG** is comprised of four coated populations and one blank population of uniform microspheres that are approximately the size of human lymphocytes (7-9µm). Each of the four sets is coated with goat-anti-mouse IgG (Fc-specific) with different calibrated Antibody Binding Capacities (ABC) for mouse monoclonal antibodies. The blank population has no specific binding capacity for mouse IgG.

When the bead populations are labeled in the same manner as the cells to be analyzed, they provide a means for constructing a QuickCal® calibration curve (ABC values vs. fluorescence intensity), from which samples may be "read". Cellular antigen expression

may thus be quantitated in ABC units. The calibration curve is also a useful means for determining instrument linearity.

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Intended Use</b>                  | FCSC815C is suitable for the quantitation of cellular antigen expression in Antibody Binding Capacity (ABC) units. This product may also serve as an accurate compensation standard when labeled with the same antibodies used to stain cell samples.                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Reagents In The Kit</b>           | 2 x 7ml bottles of uncoated microbeads<br>8 x 7ml bottles of coated microbeads.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Instructions For Use</b>          | Instructions for use can be found at <a href="http://www.bio-rad-antibodies.com/uploads/IFU/FCSC815C.pdf">www.bio-rad-antibodies.com/uploads/IFU/FCSC815C.pdf</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>References</b>                    | <ol style="list-style-type: none"><li>1. Park, J.A. &amp; Cheung, N.V. (2022) Overcoming tumor heterogeneity by <i>ex vivo</i> arming of T cells using multiple bispecific antibodies. <a href="#">J Immunother Cancer. 10 (1) :e003771.</a></li><li>2. Bryniarski, M.A. <i>et al.</i> (2024) Utility of Cellular Measurements of Non-Specific Endocytosis to Assess the Target-Independent Clearance of Monoclonal Antibodies. <a href="#">J Pharm Sci. 113 (10): 3100-3111.</a></li><li>3. Comdühr, S. <i>et al.</i> (2026) Skewed MHC Class I Peptide Presentation in Psoriatic Arthritis. <a href="#">Int J Mol Sci. 27 (16): 7317.</a></li></ol> |
| <b>Storage</b>                       | This product is shipped at ambient temperature.<br>Store at +4°C. DO NOT FREEZE.<br>This product should be stored undiluted. This product is photosensitive and should be protected from light.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Guarantee</b>                     | Guaranteed until date of expiry. Please see product label.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Acknowledgements</b>              | Quantum and Simply Cellular are trademarks of Bangs Laboratories, INC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Health And Safety Information</b> | Material Safety Datasheet documentation #10256 available at: <a href="https://www.bio-rad-antibodies.com/SDS/FCSC815C">https://www.bio-rad-antibodies.com/SDS/FCSC815C</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Regulatory</b>                    | For research purposes only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

**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)  
'M439359:250523'

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