

## iF647 Anti-Mouse CD16/32 Antibody

|                           |                     |
|---------------------------|---------------------|
| <b>Catalog Number:</b>    | 201803, 201804      |
| <b>Size:</b>              | 25 tests, 100 tests |
| <b>Target Name:</b>       | CD16/32             |
| <b>Regulatory Status:</b> | RUO                 |

### PRODUCT DETAILS

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| <b>Clone:</b>                 | 2.4G2                                                                                                                                                                                                                                                                                       |
| <b>Application:</b>           | Flow Cytometry                                                                                                                                                                                                                                                                              |
| <b>Reactivity:</b>            | Mouse                                                                                                                                                                                                                                                                                       |
| <b>Format:</b>                | iF647                                                                                                                                                                                                                                                                                       |
| <b>Isotype:</b>               | Rat IgG2b                                                                                                                                                                                                                                                                                   |
| <b>Antibody Type:</b>         | Monoclonal                                                                                                                                                                                                                                                                                  |
| <b>Formulation:</b>           | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA                                                                                                                                                                                                       |
| <b>Protein Concentration:</b> | Supplied at a lot-specific concentration.                                                                                                                                                                                                                                                   |
| <b>Storage&amp;Handling:</b>  | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.                                                                                                                                                        |
| <b>Recommended Usage:</b>     | For flow cytometric staining, it is recommended to use 5 µL of this reagent per 0.5-1.0 million cells in a 100 µL volume. Optimal reagent performance should be determined by titration for each specific application. iF647 has an excitation max at 656 nm and an emission max at 670 nm. |
| <b>Excitation Laser:</b>      | Red Laser (633 nm)                                                                                                                                                                                                                                                                          |
| <b>Isotype Control:</b>       | 300303                                                                                                                                                                                                                                                                                      |

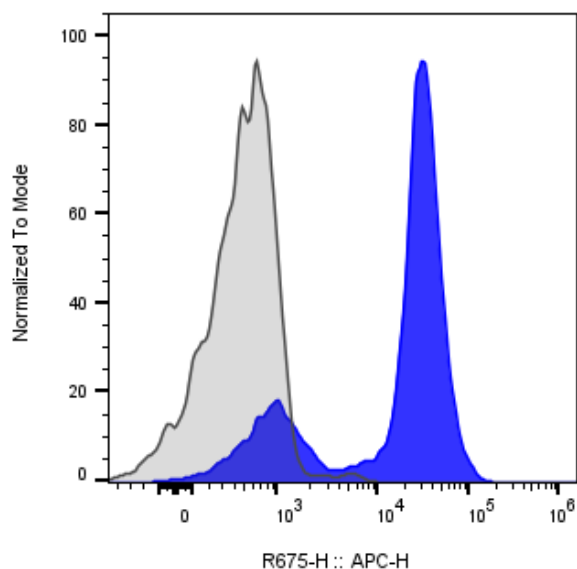
### BACKGROUND INFORMATION

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CD16/32 are Fc-gamma receptors (FcγRs) expressed on a variety of immune cells, including B cells, monocytes/macrophages, NK cells, granulocytes, mast cells, and dendritic cells. CD16 corresponds to the low-affinity Fc receptor III (FcγRIII), while CD32 corresponds to Fc receptor II (FcγRII). These receptors bind antibody-antigen immune complexes, linking innate and adaptive immunity and mediating adaptive immune responses. In research, antibodies against CD16/CD32 are commonly used to block Fc receptor-mediated interactions, preventing non-specific binding of antibodies or immunoglobulin complexes to immune cells during experiments such as flow cytometry and immunohistochemistry, thereby improving experimental accuracy.

## PRODUCT DATA

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Mouse splenocytes stained with either iF647 Anti-Mouse CD16/32 clone 2.4G2 (blue histogram) or an isotype control (gray histogram).

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