

## iF700 Anti-Mouse CD45.2 Antibody

|                           |                     |
|---------------------------|---------------------|
| <b>Catalog Number:</b>    | 202319, 202320      |
| <b>Size:</b>              | 25 µg, 100 µg       |
| <b>Target Name:</b>       | CD45.2, Ly-5.2, LCA |
| <b>Regulatory Status:</b> | RUO                 |

### PRODUCT DETAILS

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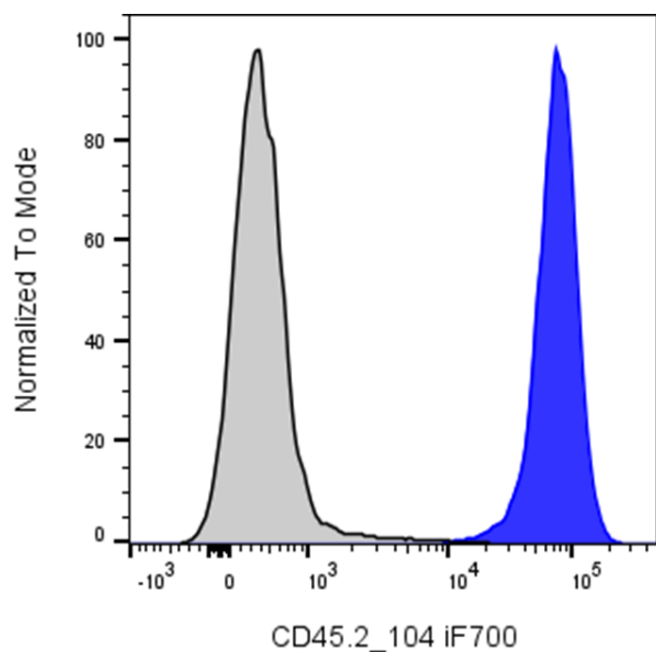
|                                |                                                                                                                                                                                                                                                                                                         |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Clone:</b>                  | 104                                                                                                                                                                                                                                                                                                     |
| <b>Application:</b>            | Flow Cytometry                                                                                                                                                                                                                                                                                          |
| <b>Reactivity:</b>             | Mouse                                                                                                                                                                                                                                                                                                   |
| <b>Format:</b>                 | iF700                                                                                                                                                                                                                                                                                                   |
| <b>Isotype:</b>                | Mouse IgG2a                                                                                                                                                                                                                                                                                             |
| <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>  | 0.2 mg/mL                                                                                                                                                                                                                                                                                               |
| <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 less than 0.2 µg 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. iF700 has an excitation max at 690 nm and an emission max at 710 nm. |
| <b>Excitation Laser:</b>       | Red Laser (633 nm)                                                                                                                                                                                                                                                                                      |
| <b>Isotype Control:</b>        | 301521                                                                                                                                                                                                                                                                                                  |

### BACKGROUND INFORMATION

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CD45.2 is a mouse alloantigen variant of CD45, expressed by Ly5.2-bearing mouse strains (e.g., A, AKR, BALB/c, CBA/Ca, CBA/J, C3H/He, C57BL, C57BR, C57L, C58, DBA/1, DBA/2, NZB, SWR, 129). CD45 is a 180–240 kDa receptor-type protein tyrosine phosphatase (PTP) expressed on all hematopoietic cells except mature erythrocytes and platelets. CD45.2 plays a crucial role in immune cell signaling, lymphocyte development, and activation.

## PRODUCT DATA



BALB/c Mouse splenocytes were stained with iF700 Anti-Mouse CD45.2 clone 104 (color-filled histogram) or an isotype control (gray histogram).

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