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# iF488 Anti-Mouse CD5 Antibody

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|---|---|
| **Catalog Number:** | 203205, 203206 |
| **Size:** | 25 μg, 100 μg |
| **Target Name:** | CD5, Ly-12, Ly-1, Lyt-1, Tp67 |
| **Regulatory Status:** | RUO |

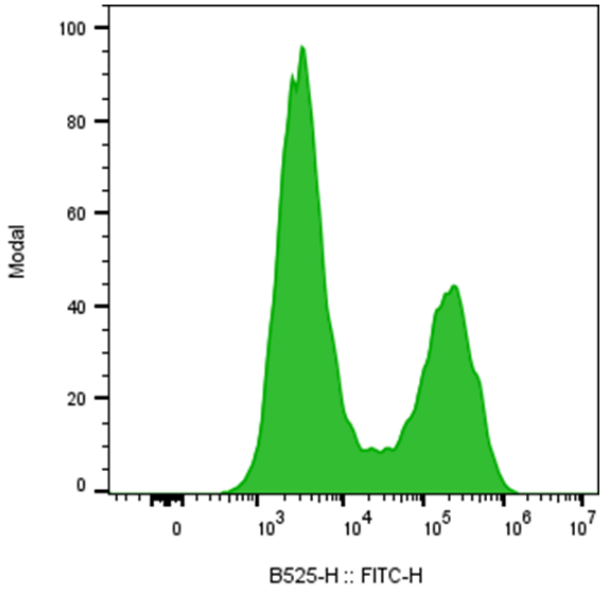
## PRODUCT DETAILS

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| **Clone:** | 53-7.3 |
| **Application:** | Flow Cytometry |
| **Reactivity:** | Mouse |
| **Format:** | iF488 |
| **Isotype:** | Rat IgG2a |
| **Antibody Type:** | Monoclonal |
| **Formulation:** | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA |
| **Protein Concentration:** | Supplied at a lot-specific concentration. |
| **Storage&Handling:** | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze. |
| **Recommended Usage:** | For flow cytometric staining, it is recommended to use less than 0.3 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. iF488 has an excitation max at 491 nm and an emission max at 516 nm. |
| **Excitation Laser:** | Blue Laser (488 nm) |
| **Isotype Control:** | 300202 |

## BACKGROUND INFORMATION

CD5 is a single-chain transmembrane glycoprotein expressed predominantly on mouse T cells and B1 cells, a specialized subset of IgM-secreting B cells. It functions as a negative regulator of antigen receptor signaling by attenuating signals from the T cell receptor (TCR) and B cell receptor (BCR), thereby modulating lymphocyte activation thresholds. Through interactions with intracellular phosphatases such as SHP-1, CD5 helps maintain immune tolerance and limits autoreactive responses. CD5-expressing cells are also associated with regulatory functions, including cytokine production such as IL-10. Owing to its regulatory role, CD5 is an important marker and functional modulator in mouse T and B cell development, activation, and immune homeostasis.

## PRODUCT DATA




Mouse splenocytes were stained with iF488 Anti-CD5 antibody clone 53-7.3 (color-filled histogram).

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