

## Anti-mouse CD5 Antibody

|                           |                               |
|---------------------------|-------------------------------|
| <b>Catalog Number:</b>    | 203201, 203202                |
| <b>Size:</b>              | 100 ug, 500 ug                |
| <b>Target Name:</b>       | CD5, Ly-12, Ly-1, Lyl-1, Tp67 |
| <b>Regulatory Status:</b> | RUO                           |

### PRODUCT DETAILS

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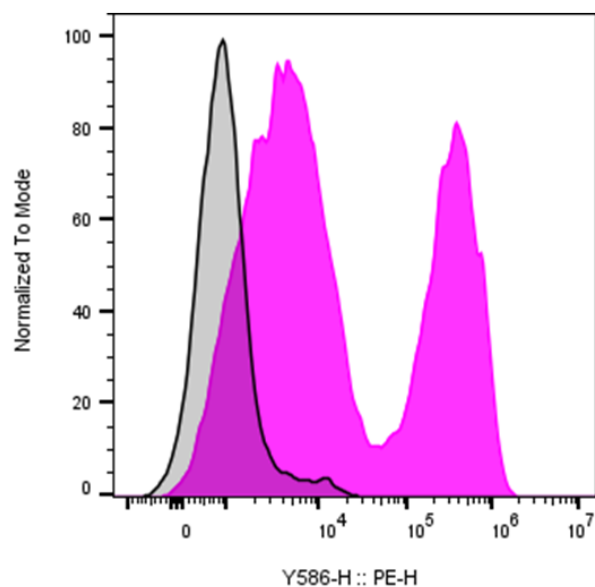
|                               |                                                                                                                                                                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Clone:</b>                 | 53-7.3                                                                                                                                                                                                                             |
| <b>Application:</b>           | Flow Cytometry                                                                                                                                                                                                                     |
| <b>Reactivity:</b>            | Mouse                                                                                                                                                                                                                              |
| <b>Format:</b>                | Purified                                                                                                                                                                                                                           |
| <b>Isotype:</b>               | Rat IgG2a                                                                                                                                                                                                                          |
| <b>Antibody Type:</b>         | Monoclonal                                                                                                                                                                                                                         |
| <b>Formulation:</b>           | Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide                                                                                                                                                                 |
| <b>Protein Concentration:</b> | 0.5 mg/mL                                                                                                                                                                                                                          |
| <b>Storage&amp;Handling:</b>  | The antibody solution should be stored between 2°C and 8°C                                                                                                                                                                         |
| <b>Isotype Control:</b>       | 300201                                                                                                                                                                                                                             |
| <b>Recommended Usage:</b>     | For flow cytometric staining, it is recommended to use less than 0.2 ug 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. |

### BACKGROUND INFORMATION

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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 purified Anti-Mouse CD5 clone 53-7.3 (color-filled histogram) or an isotype control (gray histogram), followed by PE anti-Rat IgG.

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