

## Biotin Anti-Human IL-2 Antibody

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Catalog Number:</b>    | 111703, 111704                                                                                                        |
| <b>Size:</b>              | 25 ug, 100 ug                                                                                                         |
| <b>Target Name:</b>       | IL-2, Interleukin-2, T cell growth factor, Macrophage-activating factor for cytotoxicity I, Killer cell helper factor |
| <b>Regulatory Status:</b> | RUO                                                                                                                   |

### PRODUCT DETAILS

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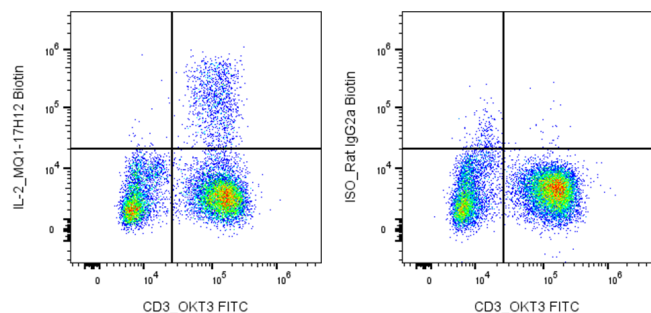
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|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Clone:</b>                 | MQ1-17H12                                                                                                                                                                                                                                                                                    |
| <b>Application:</b>           | Intracellular Flow Cytometry                                                                                                                                                                                                                                                                 |
| <b>Reactivity:</b>            | Human                                                                                                                                                                                                                                                                                        |
| <b>Format:</b>                | Biotin                                                                                                                                                                                                                                                                                       |
| <b>Isotype:</b>               | Rat 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 0.1 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. For detection, use a secondary reagent with this product. |
| <b>Isotype Control:</b>       | 300206                                                                                                                                                                                                                                                                                       |

### BACKGROUND INFORMATION

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Interleukin-2 (IL-2) is a potent immunomodulatory cytokine primarily produced by activated CD4<sup>+</sup> T helper cells. It plays a central role in immune activation and tolerance by promoting the proliferation and differentiation of T cells, NK cells, and B cells. IL-2 signals through a heterotrimeric IL-2 receptor complex composed of  $\alpha$  (CD25),  $\beta$ , and common  $\gamma$  chains, activating downstream JAK/STAT, PI3K, and MAPK pathways. IL-2 is essential for regulatory T cell development and maintenance, thereby preventing autoimmunity. Human IL-2 shares significant sequence homology with mouse IL-2 and exhibits cross-species activity, supporting its broad application in immunological research and cell culture-based assays.

## PRODUCT DATA



Human peripheral blood lymphocytes were stimulated with PMA/ionomycin, followed by surface staining with FITC anti-human CD3 clone OKT3. Cells were then fixed and permeabilized for intracellular staining with biotinylated anti-human IL-2 clone MQ1-17H12 (left) or an isotype control (right).

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