

## Anti-Human IL-2 Antibody

|                           |                                                                                                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Catalog Number:</b>    | 111701, 111702                                                                                                        |
| <b>Size:</b>              | 25ug, 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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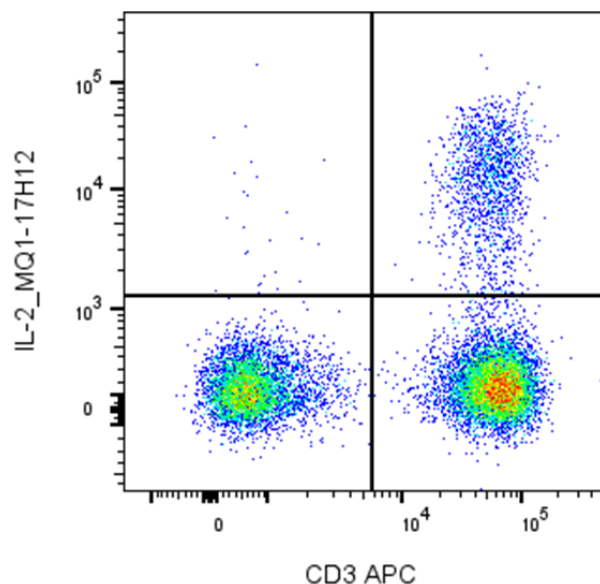
|                               |                                                                                                                                                                                                                                   |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Clone:</b>                 | MQ1-17H12                                                                                                                                                                                                                         |
| <b>Application:</b>           | ICFC, ELISA, Sandwich ELISA                                                                                                                                                                                                       |
| <b>Reactivity:</b>            | Human                                                                                                                                                                                                                             |
| <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>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 |
| <b>Isotype Control:</b>       | 300201                                                                                                                                                                                                                            |

### 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 stimulated with PMA/Ionomycin for 5 hours were stained with APC Anti-human CD3 and purified Anti-Human IL-2 clone MQ1-17H12, followed by PE anti-Rat IgG.

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