www.innocyto.com.cn

InnoCyto Inc.

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Biotin Anti-Human IL-2 Antibody

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

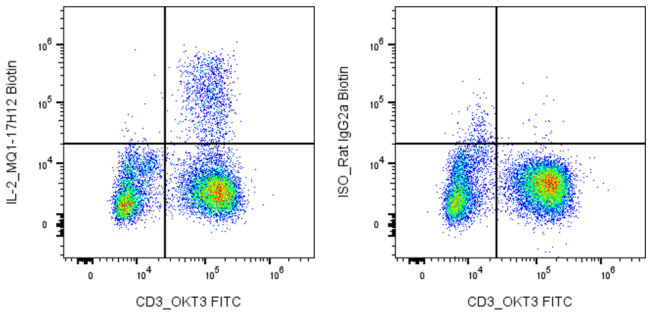
PRODUCT DETAILS

Clone:	MQ1-17H12
Application:	Intracellular Flow Cytometry
Reactivity:	Human
Format:	Biotin
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:	0.2 mg/mL
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 0.1 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.
Isotype Control:	300206

BACKGROUND INFORMATION

Interleukin-2 (IL-2) is a potent immunomodulatory cytokine primarily produced by activated $CD4^+$ 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 α (CD25), β, and common γ 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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