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InnoCyto Inc.

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Anti-Human IL-2 Antibody

Catalog Number:	111701, 111702
Size:	25ug, 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

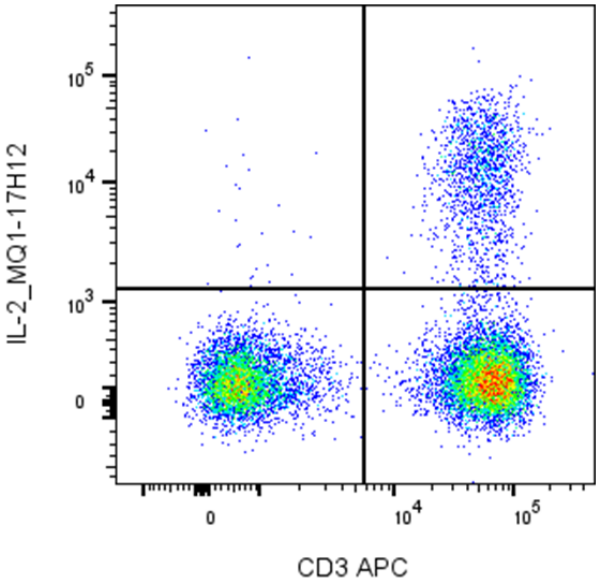
PRODUCT DETAILS

Clone:	MQ1-17H12
Application:	ICFC, ELISA, Sandwich ELISA
Reactivity:	Human
Format:	Purified
Isotype:	Rat IgG2a
Antibody Type:	Monoclonal
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Protein Concentration:	0.5 mg/mL
Storage&Handling:	The antibody solution should be stored between 2°C and 8°C
Recommended Usage:	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
Isotype Control:	300201

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 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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