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30-2836Biotin: Biotin Conjugated Anti-Human IL-2 MAb (Clone: 35C3)

Clonality :	Monoclonal
Clone Name :	35C3
Application :	IP,ICC,ELISA,FACS,WB
Reactivity :	Human
Conjugate :	Biotin
Gene :	IL-2
Gene ID :	3558
Uniprot ID :	P60568
Alternative Name :	Interleukin 2
Isotype :	Mouse IgG2b kappa
Immunogen Information :	Recombinant human IL-2

Description

IL-2 (interleukin 2) is a cytokine that is produced primarily by stimulated Th cells and its crucial role is induction of T cell proliferation. However, IL-2 also stimulates growth and differentiation of B cells, NK cells, monocytes and other cell types, such as LAK cells or oligodendrocytes and is one of the key molecules of the immune system. IL-2 signaling pathways lead to induction of Bcl-2 protein.
Specificity:The mouse monoclonal antibody 35C3 recognizes human interleukin 2 (IL-2; secreted or intracellular).

Product Info

Amount :	0.1 mg
Purification :	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.
Content :	1mg/ml Formulation: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 0.5-4 µg/ml.

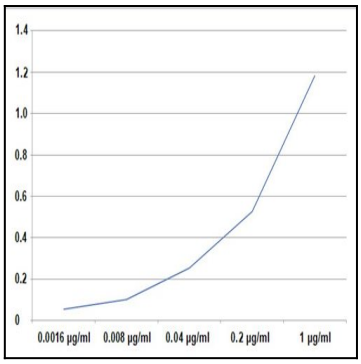

Figure 1: ELISA analysis of human IL-2 (100 ng/ml) using biotin-conjugated mouse monoclonal antibody 35C3 in five different concentrations (0.0016 - 1 µg/ml).

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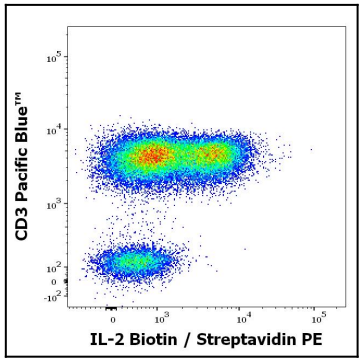

Figure 2: Flow cytometry multicolor surface staining pattern of PMA + Ionomycin stimulated and Brefeldin A treated human lymphocytes using anti-human CD3 (UCHT1) Pacific Blue antibody (4 µl reagent / 100 µl of peripheral whole blood) and intracellular staining of human lymphocytes using anti-human IL-2 (35C3) Biotin antibody (concentration in sample 0.5 µg/ml, Streptavidin PE).

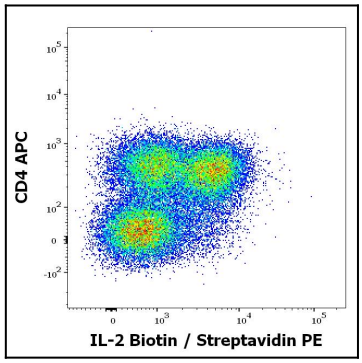

Figure 3: Flow cytometry multicolor surface staining pattern of PMA + Ionomycin stimulated and Brefeldin A treated human lymphocytes using anti-human CD4 (MEM-241) APC antibody (10 µl reagent / 100 µl of peripheral whole blood) and intracellular staining of human lymphocytes using anti-human IL-2 (35C3) Biotin antibody (concentration in sample 0.5 µg/ml, Streptavidin PE).

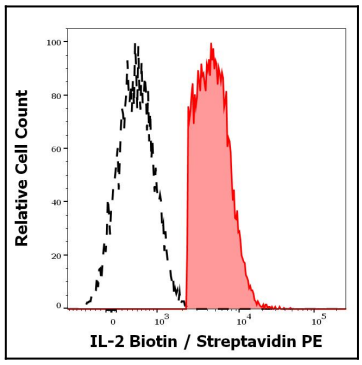

Figure 4: Separation of human CD3 positive IL-2 positive lymphocytes (red-filled) from CD3 negative IL-2 negative lymphocytes (black-dashed) in flow cytometry analysis (intracellular staining) of PMA + Ionomycin stimulated and Brefeldin A treated human peripheral whole blood stained using anti-human IL-2 (35C3) Biotin antibody (concentration in sample 0.5 µg/ml, Streptavidin PE).

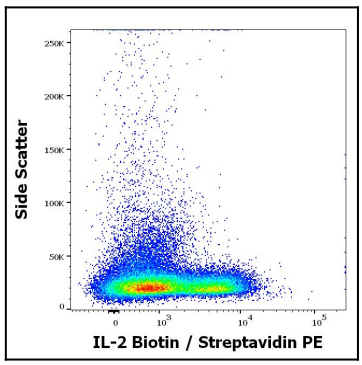

Figure 5: Flow cytometry intracellular staining pattern of PMA + Ionomycin stimulated and Brefeldin A treated human peripheral whole blood stained using anti-human IL-2 (35C3) Biotin antibody (concentration in sample 0.5 µg/ml, Streptavidin PE).