Human IL-2 Fluorescein-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 5334

Catalog Number: IC202F

100 TESTS

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-2 in direct ELISAs. Does not cross-react with recombinant IL-2 from mouse, rat, pig, or cotton rat.
Source	Monoclonal Mouse IgG_1 Clone # 5334
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human IL−2 Ala21-Thr153 Accession # NP_000577
Conjugate	Fluorescein Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm (FITC)
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

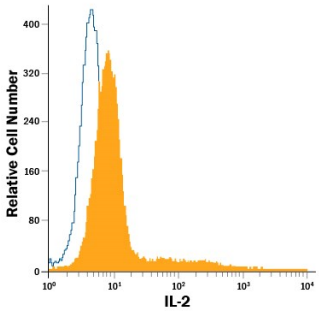
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	10 µL/10^6 cells	See Below

DATA

Intracellular Staining by Flow Cytometry



Detection of IL-2 in Human PBMCs treated with PMA and Ca^{2+} ionomycin by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) were treated with PMA and Ca^{2+} ionomycin stained with Mouse Anti-Human IL-2 Fluorescein-conjugated Monoclonal Antibody (Catalog # IC202F, filled histogram) or isotype control antibody (Catalog # IC002F, open histogram). View our protocol for Staining Intracellular Molecules.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Protect from light. Do not freeze.** ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

IL-2 is a 15-19 kDa secreted O-glycosylated polypeptide that belongs to the γ_c -receptor utilizing family of molecules. It is a monomer that is expressed by a limited number of cell types, including $CD4^+$ and $CD8^+$ T cells, γδ T cells, eosinophils and B cells. Its local concentration, plus the stoichiometry of it receptor (a two or three subunit complex) appears to determine what effects it has on its target cells. It is suggested to both induce NK and $CD8^+$ T cell proliferation, and promote NK cell and $CD8^+$ T cell effector activity. IL-2 also appears to drive $CD4^+$ Fox $P3^-$ thymocytes into mature $FoxP3^+$ Tregs, and to direct the conversion of $CD4^+$ T cells into induced Tregs. Finally, IL-2 induces γδ T cells to secrete IFN-γ, and endothelial cells to upregulate endocytic activity. Human and mouse IL-2 share 56 % amino acid sequence identity.

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