

Product datasheet for **AM39037PU-N**

IL2 Mouse Monoclonal Antibody [Clone ID: N7-48A]

Product data:

Product Type: Primary Antibodies

Clone Name: N7-48A

Applications: FC

Recommended Dilution: Flow cytometry.

Please note:

The level of most of the cytokines produced by immune unstimulated cells is too low to be detected by flow cytometry analysis. (19)

After stimulation the level of cytokines is rising and depending on the way of stimulation, the cell population, the secretion inhibitor that is used and several other factors several cytokines are upregulated and in detectable concentrations present.

Therefore, a method comprising cell stimulation, fixation and permeabilization should be used to make detection of the intracellularly expressed cytokines possible.

Fluorochrome-labelled antibodies are effectively formulated for direct immunofluorescent staining of human cells in flow cytometric analysis using 10 µl/10e6 leucocytes for singles and 20 µl/10e6 leucocytes in case of dual and triple combinations.

Reactivity: Human

Host: Mouse

Isotype: IgG2a

Clonality: Monoclonal

Specificity: The antibody detects human Interleukin 2, which is a 15 kD molecular weight glycoprotein. Other species not tested.

Formulation: 0.01 M sodium phosphate, 0.15 M NaCl, pH 7.3, 0.2% BSA, 0.09% sodium azide

State: Aff - Purified

State: Liquid purified Ig fraction

Concentration: lot specific

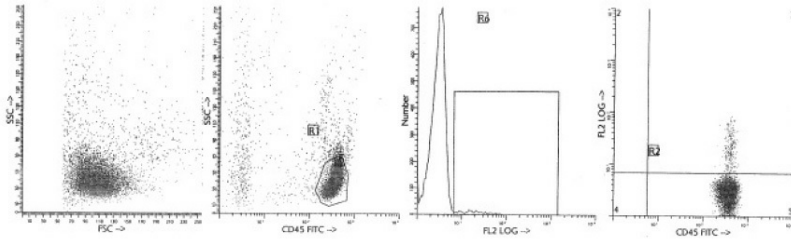
Purification: Affinity chromatography

Conjugation: Unconjugated



[View online »](#)

Storage:	Store the antibody undiluted at 2-8°C. Fluorochrome labelled product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 2
Database Link:	Entrez Gene 3558 Human P60568
Background:	<p>The immune system reacts to a pathogen by activation of balanced network of the humoral and cellular immune responses. Subsequently the activated condition of the immune system will, after the elimination of the pathogen, be down-regulated to a balanced situation again. Control of the immune response requires efficient communication between the different cells involved in this response. This interaction is provided by cell/cell contact and by a complex array of mediators. Among these mediators cytokines, soluble factors produced by these cells, play an important role. Cytokines can act on other cells locally or distantly, but can be even auto regulating. Cytokines can behave stimulatory or inhibitory, or can even perform both activities, depending on the (pre)activation stage of the target cell. (3, 4)</p> <p>Interleukine 2 (IL-2) is a cytokine expressed by human lymphocytes that have been stimulated by antigens or mitogens. Without stimulation, IL-2 is produced in low amounts by TH1 cells in vivo. Originally, IL-2 was referred to as T cell growth factor. T cell hybridomas or a leukemia cell line such as Jurkat, produce increased amounts of IL-2 in vitro. Stimulation with IL-2 leads to rapid clonal expansion of T cells and IL-2 acts on a variety of cells in vivo, such as B cells, NK cells, monocytes and macrophages. Furthermore, IL-2 can induce activation of LAK cells.</p>
Synonyms:	IL-2, TCGF
Note:	<ol style="list-style-type: none">1. Conjugates with brighter fluorochromes, like PE and APC, will have a greater separation than those with dyes like FITC. When populations overlap, the percentage of positive cells using a selected marker can be affected by the choice of fluorescent label.2. Use of monoclonal antibodies in patient treatment can interfere with antigen target recognition by this reagent. This should be taken into account when samples are analyzed from patients treated in this fashion.3. Reagent data performance is based on EDTA-treated blood. Reagent performance can be affected by the use of other anticoagulants.
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	Allograft rejection, Autoimmune thyroid disease, Cytokine-cytokine receptor interaction, Graft-versus-host disease, Jak-STAT signaling pathway, T cell receptor signaling pathway, Type I diabetes mellitus

Product images:

Representative Data Clone N7-48A (anti-IL-2) was analyzed by flow cytometry. Peripheral blood (lymphocytes) were isolated from a blood sample obtained from a healthy volunteer and subsequently activated, fixed and permeabilized. Direct staining was performed using 10 μ l of PE-conjugated monoclonal antibody in combination with 10 μ l of anti-CD45 FITC per sample.