

Product datasheet for **SM100F**

IL2 Rat Monoclonal Antibody [Clone ID: JES6-5H4]

Product data:

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|-----------------------|---|
| Product Type: | Primary Antibodies |
| Clone Name: | JES6-5H4 |
| Applications: | FC |
| Recommended Dilution: | Flow Cytometry: neat - 1/10; use 10 µl of the suggested working dilution to label 10e6 cells in 100µl; Membrane permeabilisation is required for this application. in 100µl |
| Reactivity: | Mouse |
| Host: | Rat |
| Isotype: | IgG2b |
| Clonality: | Monoclonal |
| Immunogen: | Recombinant Mouse IL-2. Spleen cells from immunised BALB/c mice were fused with cells of the mouse P3.X63 Ag8.653 myeloma cell line. |
| Specificity: | This antibody recognises natural and recombinant IL-2. This antibody may be used to detect intracellular IL-2 in flow cytometric applications. |
| Formulation: | PBS containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: FITC State: Liquid purified IgG Label: Fluorescein Isothiocyanate Isomer 1 |
| Concentration: | lot specific |
| Purification: | Affinity chromatography on Protein G |
| Conjugation: | FITC |
| Storage: | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. |
| Stability: | Shelf life: one year from despatch. |
| Gene Name: | interleukin 2 |
| Database Link: | Entrez Gene 16183 Mouse P04351 |



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Background:

Interleukin 2 (IL2) is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by interleukin 4 (IL4) and interleukin 7 (IL7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli. IL2 has been shown to have antitumor effects in some studies. This is probably mediated by cytotoxic effector cells.

Synonyms:

IL-2, TCGF