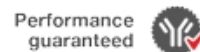


# IL-2 Monoclonal Antibody (JES6-5H4), APC, eBioscience™



Catalog Number 17-7021-81

Product Data Sheet

Details		Species Reactivity	
Size	50 µg	Tested species reactivity	Mouse
Host / Isotype	Rat / IgG2b, kappa	Published Species Reactivity	Human, Mouse
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	0.25 µg/test
Clone	JES6-5H4	Published Applications	
Conjugate	APC	Flow Cytometry (Flow)	See 9 publications below
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	0.2mg/mL		
Purification	Affinity chromatography		
Storage Buffer	PBS, pH 7.2, with 0.1% gelatin		
Contains	0.09% sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

## Product Specific Information

Description: The JES6-5H4 antibody reacts with mouse interleukin-2 (IL-2), a 17 kDa T cell growth factor and a major immunoregulatory cytokine.

Applications Reported: JES6-5H4 has been reported for use in intracellular flow cytometric analysis.

Applications Tested: This JES6-5H4 antibody has been tested intracellular staining of stimulated mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

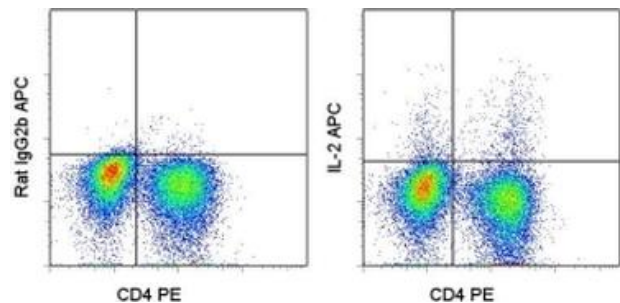
Filtration: 0.2 µm post-manufacturing filtered.

## Background/Target Information

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.

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## Product Images for IL-2 Monoclonal Antibody (JES6-5H4), APC, eBioscience™



Mouse splenocytes were stimulated with PMA/Ionomycin in the presence of Monensin, then surface stained with Anti-Mouse CD4 PE (Product # 12-0041-82), followed by intracellular staining with 0.125 µg of Rat IgG2b K Isotype Control APC (Product # 17-4031-82) (left) or 0.125 µg of Anti-Mouse IL-2 APC (right). Total viable cells were used for

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analysis.

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