



Anti-IL2 monoclonal antibody, clone MQ1-17H12 [FITC] (CABT-48483RH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Rat anti Human Interleukin-2 antibody, clone MQ1-17H12 recognizes human interleukin-2 (IL-2), also known as T-cell growth factor or Aldesleukin. IL-2 is a 153 amino acid secreted cytokine produced by T-cells following antigenic or mitogenic stimulation. It plays a crucial role in T-cell proliferation and immune regulation. Rat anti Human Interleukin-2 antibody, clone MQ1-17H12 has been successfully used for the detection and measurement of native and recombinant human IL-2 using flow cytometry and ELISA where it acts as the capture reagent in a very sensitive assay for IL-2 determination in human samples. IL-2 is used extensively for the treatment of patients with metastatic melanoma and renal cancer with reproducible beneficial effects. Monitoring of IL-2 levels in such patients is required for optimization of treatment regimens. Rat anti Human Interleukin-2 antibody, clone MQ1-17H12 is also useful for evaluating levels of IL-2 in patients with autoimmune conditions including lupus erythematosus and rheumatoid arthritis where there may be an impaired ability to produce IL-2. Flow Cytometry Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

Specificity	IL2
Isotype	IgG2a
Source/Host	Rat
Species Reactivity	Human, Cynomolgus monkey
Clone	MQ1-17H12
Conjugate	FITC
Applications	FC
Format	Purified IgG - liquid

Size	100 µg
Preservative	0.09% Sodium Azide
Storage	in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	IL2 interleukin 2 [Homo sapiens (human)]
Official Symbol	IL2
Synonyms	IL2; interleukin 2; IL-2; TCGF; lymphokine; interleukin-2; aldesleukin; T cell growth factor; involved in regulation of T-cell clonal expansion;
Entrez Gene ID	3558
Protein Refseq	NP_000577
UniProt ID	P60568
Chromosome Location	4q26-q27
Pathway	AhR pathway; Allograft rejection; Autoimmune thyroid disease; Calcineurin-regulated NFAT-dependent transcription in lymphocytes; Calcium signaling in the CD4+ TCR pathway; Chagas disease (American trypanosomiasis); Corticotropin-releasing hormone; Cytokine Signaling in Immune system;
Function	carbohydrate binding; cytokine activity; glycosphingolipid binding; growth factor activity; interleukin-2 receptor binding; kappa-type opioid receptor binding; kinase activator activity;