



Anti-IL2RA monoclonal antibody, clone MEM-181 [R-PE] (CABT-48019MH)

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

PRODUCT INFORMATION

Product Overview

Mouse anti Human CD25, clone MEM-181 recognizes the 55kD alpha subunit of the human IL-2 receptor, also known as p55 or TAC antigen, CD25 is a type 1 transmembrane protein with two Sushi domains, also known as short consensus repeats (SCRs) or complement control protein (CCP) modules located within its extracellular domain. The IL-2 receptor exists in three forms. A high affinity form consisting of a non-covalently linked heterodimer composed of the alpha subunit (CD25) and the IL-2 receptor beta subunit also known as CD122 or p75, a medium affinity beta subunit (CD122) monomer or a low affinity alpha (CD25) subunit monomer. CD25 is expressed by activated T lymphocytes and activated B lymphocytes responding to antigen or mitogen stimulation. CD25 is also expressed in some thymocytes and oligodendrocytes. In disease, elevated expression of CD25 is noted in a number of chronic inflammatory conditions, tuberculoid leprosy patients demonstrate markedly elevated levels of circulating CD25^{high} FoxP3⁺ regulatory T cells (T-regs). Elevated levels of CD25 antigen expression are often seen in cases of non-Hodgkin's lymphoma and diffuse large B cell lymphoma. Flow Cytometry Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

Specificity	IL2RA
Immunogen	Human PHA blasts; day 3 of culture.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	MEM-181
Conjugate	PE

Applications	FC
Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised
Size	100 tests
Preservative	0.09% Sodium Azide
Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	IL2RA interleukin 2 receptor, alpha [Homo sapiens (human)]
Official Symbol	IL2RA
Synonyms	IL2RA; interleukin 2 receptor, alpha; p55; CD25; IL2R; TCGFR; IDDM10; interleukin-2 receptor subunit alpha; TAC antigen; IL-2R subunit alpha; IL-2 receptor subunit alpha;
Entrez Gene ID	3559
Protein Refseq	NP_000408
UniProt ID	P01589
Chromosome Location	10p15-p14
Pathway	Arf6 trafficking events; Calcineurin-regulated NFAT-dependent transcription in lymphocytes; Calcium signaling in the CD4+ TCR pathway; Cytokine Signaling in Immune system; Cytokine-cytokine receptor interaction; Downstream signaling in naive CD8+ T cells; Endocytosis; G beta:gamma signalling through PI3Kgamma;
Function	drug binding; interleukin-2 binding; interleukin-2 receptor activity;