



# Anti-IL2RA monoclonal antibody, clone MEM-181 [Biotin] (CABT-48012MH)

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<sup>high</sup> FoxP3<sup>+</sup> 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 10<sup>6</sup> cells in 100ul.

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

<b>Applications</b>	FC
<b>Format</b>	Purified IgG conjugated to Biotin - liquid
<b>Size</b>	100 µg
<b>Preservative</b>	See individual product datasheet
<b>Storage</b>	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

<b>Gene Name</b>	<a href="#">IL2RA interleukin 2 receptor, alpha [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	IL2RA
<b>Synonyms</b>	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;
<b>Entrez Gene ID</b>	<a href="#">3559</a>
<b>Protein Refseq</b>	<a href="#">NP_000408</a>
<b>UniProt ID</b>	P01589
<b>Chromosome Location</b>	10p15-p14
<b>Pathway</b>	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;
<b>Function</b>	drug binding; interleukin-2 binding; interleukin-2 receptor activity;