



Anti-IL2RA monoclonal antibody, clone BC96 [R-PE/Cy5®] (CABT-48020MH)

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

PRODUCT INFORMATION

Product Overview Mouse anti Human CD25 antibody, clone BC96 recognizes the human CD25 cell surface antigen, also known as the Interleukin-2 receptor subunit alpha or TAC antigen. CD25 is derived from a 272 amino acid precursor to yield a 251 amino acid monomeric receptor of ~53kDa which acts as the low affinity receptor for IL-2. CD25 can also form a heterodimer with CD122 to form the high affinity receptor for IL-2. CD25 is expressed by activated lymphocytes. Defects in CD4+ / CD25+ regulatory T cells have been implicated in the pathogenesis of autoimmune diabetes and other autoimmune conditions. Flow Cytometry Use 20ul of the suggested working dilution to label 106 cells or 100ul whole blood.

Specificity	IL2RA
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human, Baboon, Chimpanzee, Cynomolgus, Pigtailed macaque, Rhesus
Clone	BC96
Conjugate	PE/Cy5
Applications	FC
Size	100 tests
Preservative	0.09% Sodium Azide
Storage	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;