



Anti-IL2RA monoclonal antibody, clone YTH906.9HL [FITC] (CABT-48021RH)

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

PRODUCT INFORMATION

Product Overview

Rat anti Human CD25, clone YTH906.9HL specifically recognizes human IL-2R alpha chain (IL2RA), otherwise known as CD25, a 55kDa type I transmembrane protein which acts as a receptor for interleukin-2 (IL-2). CD25 is expressed by activated T and B lymphocytes, macrophages and osteoblasts, and by some thymocytes and myeloid precursors, and can be used in histology as a marker for hairy cell leukemia and systemic mastocytosis. CD4+CD25+ cells are known to act as regulatory T cells (Tregs), high levels of which are associated with advanced stage in esophageal and gastric cancer. Genetic variations in CD25 are associated with susceptibility to the multifactorial disorder diabetes mellitus insulin-dependent type 10 (IDDM10), characterized by susceptibility to ketoacidosis in the absence of insulin therapy, and the clinical manifestations polydipsia, polyphagia and polyuria, and long term eye, kidney, and nerve complications. Flow Cytometry Use 10ul of the suggested working dilution to label 106 cells in 100ul.

Specificity	IL2RA
Immunogen	Activated human T lymphocytes
Isotype	IgG2b
Source/Host	Rat
Species Reactivity	Human
Clone	YTH906.9HL
Conjugate	FITC
Applications	FC
Format	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Size	100 tests
Preservative	0.09% Sodium Azide
Storage	in frost free freezers is not recommended. This product is photosensitive and should be protected from light. 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	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;