



Rat Anti-Mouse CD25 (IL-2R α) Monoclonal antibody, clone 7D4 (CABT-L4305)

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

PRODUCT INFORMATION

Product Overview	The 7D4 monoclonal antibody reacts with mouse IL-2R α also known as CD25, Ly-43, p55, or Tac. IL-2R α is the 55 kDa ligand-binding subunit of the interleukin 2 receptor alpha chain.
Target	Mouse CD25 (IL-2R α)
Immunogen	IL-2-dependent BALB/c mouse T cell clone HT2
Isotype	IgM, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	7D4
Purification	T-Gel. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo regulatory T cell inactivation
Format	0.2 μ M filtered liquid. Purified from tissue culture supernatant in an animal free facility
Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/ μ g). Determined by LAL gel clotting assay

Related dilution buffer: CABT-LB04

Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	The 7D4 monoclonal antibody reacts with mouse IL-2R α also known as CD25, Ly-43, p55, or Tac. IL-2R α is the 55 kDa ligand-binding subunit of the interleukin 2 receptor alpha chain. IL-2R α is expressed on activated mature T and B lymphocytes, thymocyte subsets, pre-B cells, and T regulatory cells. IL-2R α has been shown to play roles in lymphocyte differentiation, activation, and proliferation. Alone, the IL-2R α binds IL-2 with relatively low affinity however, when IL-2R α associates with IL-2R β (CD122) and the common gamma chain (CD132) the complex binds IL-2 with high affinity. The 7D4 antibody recognizes a different epitope on CD25 than the PC-61.5.3 clone.
Keywords	IL2RA;CD25;interleukin-2 receptor subunit alpha;p55;IL2-RA;IL-2-RA;IL-2R alpha;TAC antigen;cytokine receptor;IL-2R subunit alpha;IL-2 receptor alpha subunit;IL-2 receptor subunit alpha;interleukin-2 receptor alpha chain;

GENE INFORMATION

Official Symbol	interleukin 2 receptor, alpha
Synonyms	IL2RA; CD25; interleukin-2 receptor subunit alpha; p55; IL2-RA; IL-2-RA; IL-2R alpha; TAC antigen; cytokine receptor; IL-2R subunit alpha; IL-2 receptor alpha subunit; IL-2 receptor subunit alpha; interleukin-2 receptor alpha chain;
References	Podojil, J. R., et al. (2013). "B7-H4Ig inhibits mouse and human T-cell function and treats EAE via IL-10/Treg-dependent mechanisms." J Autoimmun 44: 71-81. PubMed;