



Rat Anti-Mouse CD132 (common γ chain) Monoclonal antibody, clone 3E12 (CABT-L4508)

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

PRODUCT INFORMATION

Product Overview

The 3E12 monoclonal antibody reacts with mouse CD132 also known as the common gamma chain and IL-2 receptor gamma chain. CD132 is a 64-70 kDa type I transmembrane glycoprotein belonging to the Ig superfamily. It is expressed by a wide range of cells including T and B lymphocytes, NK cells, monocytes, and granulocytes. CD132 is an essential subunit of the receptor complexes for at least six different interleukin receptors: IL-2, IL-4, IL-7, IL-9, IL-15 and IL-21 receptors. Ligand binding induces tyrosine phosphorylation and initiates signaling through the JAK/STAT pathway. The 3E12 antibody has been reported to block the bioactivity of IL-4, IL-9, and IL-15 and inhibit the ligand/receptor binding of IL-4 and IL-7.

Target	Mouse CD132 (common γ chain)
Immunogen	Rat myeloma YB2/0 transfected with mouse cytoplasmic-tailless CD132
Isotype	IgG2b
Source/Host	Rat
Species Reactivity	Mouse
Clone	3E12
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo γ c blockade, FuncS, IP, FC

Molecular Weight	150 kDa
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	Common subunit for the receptors for a variety of interleukins.
Keywords	IL2RG; interleukin 2 receptor, gamma; P64; CIDX; IMD4; CD132; SCIDX; IL-2RG; SCIDX1; cytokine receptor common subunit gamma; gammaC; CD132 antigen; IL-2R subunit gamma; IL-2 receptor subunit gamma; common cytokine receptor gamma chain;

GENE INFORMATION

Official Symbol	interleukin 2 receptor, gamma
Synonyms	IL2RG; interleukin 2 receptor, gamma; P64; CIDX; IMD4; CD132; SCIDX; IL-2RG; SCIDX1; cytokine receptor common subunit gamma; gammaC; CD132 antigen; IL-2R subunit gamma; IL-2 receptor subunit gamma; common cytokine receptor gamma chain;
References	Li, X. C., et al. (2001). "IL-15 and IL-2: a matter of life and death for T cells in vivo." <i>Nat Med</i> 7(1): 114-118. PubMed;