



Rat Anti-Mouse IL-7R α (CD127) Monoclonal antibody, clone A7R34 (CABT-L4337)

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

PRODUCT INFORMATION

Product Overview

The A7R34 monoclonal antibody reacts with mouse IL-7R α also known as CD127. IL-7R α is a 60-90 kDa type I transmembrane glycoprotein expressed on immature B cells, thymocytes, peripheral T cells, and bone marrow stromal cells. IL-7R α forms a heterodimer with the common γ chain (γ c or CD132) and upon ligation of IL-7 plays important roles in T and B cell development, and T cell homeostasis. Thymic Stromal Lymphopoietin (TSLP) also binds to IL-7R α as a complex with the TSLPR chain to trigger activation of dendritic cells, and is also involved in B cell development, allergy and autoimmunity. The A7R34 antibody has been shown to block IL-7R α signaling when administered in vivo.

Target	Mouse IL-7R α (CD127)
Immunogen	IL-7R α -IgG1 fusion protein
Isotype	IgG2a, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	A7R34
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo blocking of IL-7R α signaling, 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/μg). 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	Interleukin-7 is a glycoprotein involved in the regulation of lymphopoiesis. Response of cells to IL7 is dependent on the presence of the interleukin 7 receptor (IL7R); the active receptor is a alpha/gamma chain heterodimer. The gamma(c) chain, which also associates with the interleukin-2 receptor, serves primarily to activate signal transduction by the IL7R complex, while the alpha chain of IL7R determines specific signaling events through its association with cytoplasmic signaling molecules. [provided by RefSeq, Jul 2008]
Keywords	IL7R;interleukin 7 receptor;CD127;IL-7Ralpha;interleukin-7 receptor subunit alpha;IL-7RA;IL-7R-alpha;IL-7R subunit alpha;IL-7 receptor alpha chain;IL-7 receptor subunit alpha;interleukin 7 receptor alpha chain;

GENE INFORMATION

Official Symbol	interleukin 7 receptor
Synonyms	IL7R; interleukin 7 receptor; CD127; IL-7Ralpha; interleukin-7 receptor subunit alpha; IL-7RA; IL-7R-alpha; IL-7R subunit alpha; IL-7 receptor alpha chain; IL-7 receptor subunit alpha; interleukin 7 receptor alpha chain;
References	Becker, A. M., et al. (2015). "ADAM17 limits the expression of CSF1R on murine hematopoietic progenitors." Exp Hematol 43(1): 44-52 e41-43. PubMed;Chougnnet, C. A., et al. (2011). "A major role for Bim in regulatory T cell homeostasis." J Immunol 186(1): 156-163. PubMed;