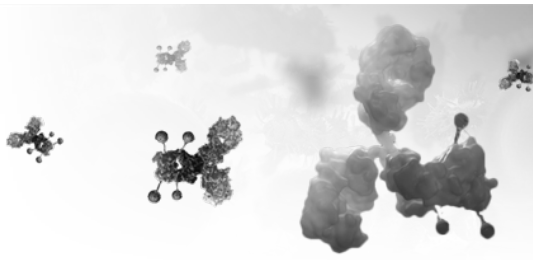

# Rat Anti-Mouse IL-7Rα (CD127) Monoclonal antibody, clone A7R34 (CABT-L4337)

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

## PRODUCT INFORMATION

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| **Product Overview** | The A7R34 monoclonal antibody reacts with mouse IL-7Rα also known as CD127. IL-7Rα is a 60-90 kDa type I transmembrane glycoprotein expressed on immature B cells, thymocytes, peripheral T cells, and bone marrow stromal cells. IL-7Rα forms a heterodimer with the common γ chain (γc 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-7Rα 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-7Rα signaling when administered in vivo. |
| **Target** | Mouse IL-7Rα (CD127) |
| **Immunogen** | IL-7Rα-IgG1 fusion protein |
| **Isotype** | IgG2a, κ |
| **Source/Host** | Rat |
| **Species Reactivity** | Mouse |
| **Clone** | A7R34 |
| **Purification** | Protein G purified.<br>Purity>95%. Determined by SDS-PAGE |
| **Conjugate** | Functional Grade |
| **Applications** | in vivo blocking of IL-7Rα signaling, FC |
| **Molecular Weight** | 150 kDa |
| **Format** | 0.2 μM filtered liquid. Purified from tissue culture supernatant in an animal free facility |

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| **Concentration** | Lot specific |
| **Size** | 5 mg |
| **Buffer** | PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free]<br><br>Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay<br>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

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| **Introduction** | Interleukin-7 is a glycoptorein 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

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| **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;Chougnet, C. A., et al. (2011). "A major role for Bim in regulatory T cell homeostasis." J Immunol 186(1): 156-163. PubMed; |

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