

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat IL-7 Rα/CD127 in direct ELISAs and Western blots. In direct ELISAs, approximately 60% cross-reactivity with recombinant mouse IL-7 Rα and less than 10% cross-reactivity with recombinant human IL-7 Rα is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat IL-7 Rα/CD127 Glu21-Asp239 Accession # NP_001099888
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

IL-7 Rα (IL-7 receptor alpha; also CD127) is a 60-70 kDa member of the type I cytokine receptor family of molecules. It is expressed on resting naïve and memory CD8+ T cells, DN thymocytes, pre-B cells, Th1 CD4+ T cells, dendritic cells and monocytes. IL-7 Rα heterodimerizes with both the γc chain to create the IL-7 receptor, and the TSLPR subunit to generate the TSLP receptor. IL-7 Rα participates in T cell differentiation, naïve T cell survival, and CD4+ thymocyte proliferation. Mature rat IL-7 Rα is a 437 aa type I transmembrane glycoprotein. It contains a 219 aa extracellular region (aa 21-239) that possesses one type III fibronectin domain (aa 129-222), and a 193 aa cytoplasmic tail that shows a key phosphorylation site at Tyr447. Over aa 21-239, rat IL-7 Rα shares 79% and 67% aa identity with mouse and human IL-7 Rα, respectively.

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