Leinco Technologies, Inc.
excellence in early discovery research™

Anti-Mouse CD127 (IL-7Rα)
Purified *in vivo* GOLD™ Functional Grade
Monoclonal Antibody

Product Information
Product No.: C2223
Clone: A7R34
RRID: AB_2737461
Isotype: Rat IgG2a κ
Storage: Sterile 2-8°C

Product Description
Specificity:
Clone A7R34 recognizes an epitope on mouse CD127.
Antigen Distribution:
IL-7Rα is expressed on bone marrow lymphoid precursors, pro-B cells, monocytes/macrophages, NK-cells, naïve T cells, memory CD4+ and CD8+ T cells, intestinal colorectal and renal carcinoma cell lines, and keratinocytes.
Background:
CD127 (IL7R-α) is a 60-90 kD type I cytokine receptor involved in the regulation of lymphopoiesis. The active receptor is an α/γ chain heterodimer. The common γ chain, which also associates with the IL-2 receptor, serves mainly to activate signal transduction via the IL7R complex. CD127 also interacts with the Thymic Stromal Lymphopoietin Receptor (TSLPR). CD127 determines signaling events via its association with cytoplasmic signaling molecules and has been reported to be a useful marker for identifying memory and effector T cells.
Known Reactivity Species:
Mouse
Format:
in vivo GOLD™, Purified in vivo Functional Grade
Immunogen:
IL-7Ra-IgG1 fusion protein
Formulation
This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.
Purity
≥95% monomer by analytical SEC, >95% by SDS Page
Endotoxin
< 1.0 EU/mg as determined by the LAL method
Storage and Stability
Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C. **Avoid Repeated Freeze Thaw Cycles.**
Product Preparation
Functional grade preclinical antibodies are manufactured in an animal free facility using *in vitro* cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.
Applications
Applications and Recommended Usage (Quality Tested By Leinco):

FC The suggested concentration for this A7R34 antibody for staining cells in flow cytometry is ≤ 0.25 μg per 10^6 cells in a volume of 100 μl. Titration of the reagent is recommended for optimal performance for each application.

Other Applications Reported in Literature:

B

CyTOF®

FA

IF Staining

IHC (Frozen)

IP

WB

Country of Origin

USA

References

1. Fry TJ et al. (2005) J Immunol. 174: 6571 2. Murre C et al. (2002) Embo J. 21: 103