

Human IL-2

Monoclonal Antibody

Product Information

Product No.: I-172

Clone: 5334

RRID: AB_2830566

Isotype: Mouse IgG1

Storage: -20° to -70°C

Product Description

Specificity:

Clone 5334 recognizes human IL-2

Background:

Interleukin-2 (IL-2) is a potent T-cell mitogenic cytokine¹ that functions as a primary regulator of T cell homeostasis and has been considered a prime candidate immunotherapeutics, both for increasing T cell levels/function and for augmenting vaccine-elicited viral-specific T cell responses.² IL-2 plays a key role in setting the balance between immunity and tolerance. This cytokine has a dual role as the regulator of the two main phases of the immune response (proliferative and suppressive).³ IL-2 also stimulates growth and differentiation of B cells, NK cells, LAK cells, monocytes, and oligodendrocytes.

Known Reactivity Species:

Human

Format:

Purified No Carrier Protein

Immunogen:

Purified Recombinant Human IL-2 (Accession # NP_000577)

Formulation

This purified antibody is 0.2 µm filtered and lyophilized from phosphate buffered saline (PBS), pH 6.2 with 5% Trehalose with no carrier proteins or preservatives.

Endotoxin

<0.1 EU/µg as determined by the LAL method

Storage and Stability

This lyophilized monoclonal antibody should be stored desiccated at -20° to -70°C. After reconstitution, this monoclonal antibody can be stored at 2° to 8°C for one month. For long-term storage of the reconstituted antibody, aseptically aliquot into working volumes and store at -20° to -70°C in a manual defrost freezer.

Avoid Repeated Freeze Thaw Cycles

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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Applications

Applications and Recommended Usage (Quality Tested By Leinco):

Flow Cytometry: It is recommended to use the indirect method for signal enhancement when enumerating cells expressing IL-2. A suggested method would be to stain cells expressing IL-2 with 0.25 µg per 1-5 x 10⁶ cells in a total staining volume of µl followed by **PN: M1189**

Other Applications Reported in Literature:

Neutralization: This antibody is useful for neutralization of Human IL-2 bioactivity. The antibody dose required to neutralize 50% (ND50) of the biological activity of Human IL-2 (at 2 ng/ml) is 0.015 - 0.03 µg/mL

Immunocytochemistry: Suitable for use at concentration of 8-25 µg/mL

CyTOF-ready: Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation

Country of Origin

USA

References

- 1) Schachter, J. et al. (2009) Cytotherapy 11: 206
- 2) Sodora, DL. et al. (2009) Curr HIV Res. 7: 83
- 3) Alcocer-Varela, J. et al. (2009) Autoimmun Rev. 9(1):34-9.