

Mouse IL-7 Alexa Fluor® 532-conjugated Antibody

Monoclonal Rabbit IgG Clone # 2304B Catalog Number: FAB4071X

100 µg

| DESCRIPTION | |
|--------------------|---|
| Species Reactivity | Mouse |
| Specificity | Detects mouse IL-7 in direct ELISAs. |
| Source | Monoclonal Rabbit IgG Clone # 2304B |
| Purification | Protein A or G purified from cell culture supernatant |
| Immunogen | E. coli-derived recombinant mouse IL-7 Glu26-Ile154 Accession # P10168 |
| Conjugate | Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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.

Neutralization 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, previously known as pre-B-cell growth factor and lymphopoietin-1, was originally purified on the basis of its ability to promote the proliferation of precursor B-cells. It has now been shown that IL-7 can also stimulate the proliferation of thymocytes, T cell progenitors and mature CD4 ⁺ and CD8⁺ T cells. IL-7 can induce the formation of lymphokine-activated killer (LAK) cells as well as the development of cytotoxic T lymphocytes (CTL). IL-7 was also shown to induce the V(D)J rearrangement of the T cell receptor β gene in mouse fetal thymocytes. Among myeloid lineage cells, IL-7 can up-regulate the production of pro-inflammatory cytokines and stimulate the tumorocidal activity of monocytes/macrophages. IL-7 is expressed by adherent stromal cells from various tissues.

Mouse IL-7 cDNA encodes a precursor protein of 154 amino residues containing a 25 amino acid residue signal peptide. Human IL-7 has approximately 65% amino acid sequence identity with mouse IL-7 and both proteins exhibit cross-species activity.

IL-7 bioactivities are mediated by the binding of IL-7 to functional high-affinity receptor complexes. The ligand binding subunit (IL-7 R) of the IL-7 receptor complex has been cloned from human and mouse sources. In addition to the membrane-anchored form of the IL-7 receptor, a human cDNA clone that encodes a soluble form of the IL-7 R has also been isolated. The γ chain of the IL-2 receptor complex has been shown to be an essential component for IL-7 signal transduction. Both IL-7 R and IL-2 Rγ are members of the hematopoietin receptor superfamily. Cells known to express IL-7 receptors include pre-B cells, T cells and bone marrow cells.

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