

IL7

Reactivity:Human Mouse Rat

Tested applications:WB IHC IF

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

Calculated MW:20kDa

Observed MW:Refer to Figures

Immunogen:

Recombinant protein of human IL7

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

b

Synonym:

IL-7;

Catalog #:A1650

Antibody Type:

Polyclonal Antibody

Species:Rabbit

Gene ID:3574

Isotype:IgG

Swiss Prot:P13232

Purity:Affinity purification

For research use only.

Background:

IL-7 plays a key role in lymphopoiesis and lymphoid homeostasis (1). Stromal and epithelial cells within the bone marrow and thymus produce IL-7 (1). The primary targets of IL-7 are T cells, B cells, and dendritic cells (1). IL-7 is crucial for T cell development, the importance of which is underscored by the lack of T cells in both mice and humans that are deficient in IL-7/IL-7R signaling (1,2). While IL-7 appears to be required for B cell development in mice, the role of IL-7 in human B cell development is unclear (1,3). In addition to its effects on T cell lymphopoiesis, IL-7 promotes the maintenance and survival of naïve and memory T cells, as well as T cells (1). The IL-7 receptor is a heterodimer of the common chain, γ_c , and the IL-7-specific IL-7R (1). IL-7 activates PI3K/Akt, Jak1/2, and Stat1, 3, and 5 (1).

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