

## 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,  $\alpha$ , 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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