

Product datasheet for **TA327124S**

IL7 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB 1:500 - 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human IL7
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	interleukin 7
Database Link:	NP_000871 Entrez Gene 16196 Mouse Entrez Gene 25647 Rat Entrez Gene 3574 Human P13232

Background: IL-7 plays a key role in lymphopoiesis and lymphoid homeostasis . 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 . 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 . 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 . In addition to its effects on T cell lymphopoiesis, IL-7 promotes the maintenance and survival of naïve and memory $\alpha\beta$ T cells, as well as $\gamma\delta$ T cells . The IL-7 receptor is a heterodimer of the common γ chain, β c, and the IL-7-specific IL-7Ra . IL-7 activates PI3K/Akt, Jak1/2, and Stat1, 3, and 5 .



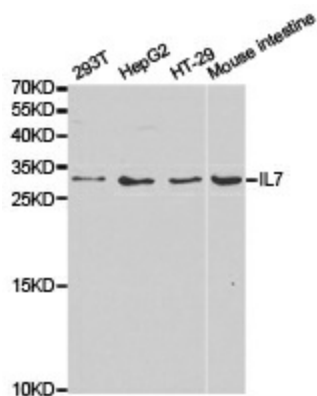
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Synonyms: IL-7

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Jak-STAT signaling pathway

Product images:



Western blot analysis of extracts of various cell lines, using IL7 antibody.