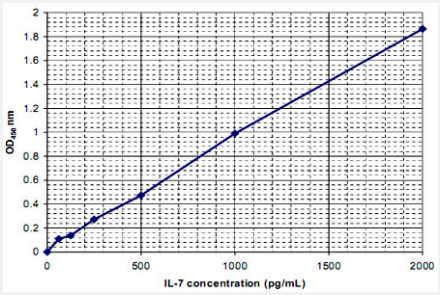
# IL7 (Human) ELISA Kit

Catalog # KA0525 Size 1 Kit

## Applications




The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

## Specification

| | |
|---|---|
| **Product Description** | IL7 (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human IL7. |
| **Suitable Sample** | Cell Culture Supernatant, Plasma, Serum, Biological Fluids |
| **Sample Volume** | 100 uL |
| **Label** | HRP-conjugate |
| **Detection Method** | Colorimetric |
| **Assay Type** | Quantitative |
| **Calibration Range** | 1.5 to 500 pg/mL |
| **Limit of Detection** | 1 pg/mL |
| **Reactivity** | Human |
| **Regulation Status** | For research use only (RUO) |
| **Quality Control Testing** | Standard curve<br>The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed. |

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| | |
|---|---|
| **Storage Instruction** | Store the kit at 4°C. |

## Applications

- Quantification

## Gene Info — IL7

| | |
|---|---|
| **Entrez GeneID** | 3574 |
| **Gene Name** | IL7 |
| **Gene Alias** | IL-7 |
| **Gene Description** | interleukin 7 |
| **Omim ID** | 146660 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a cytokine important for B and T cell development. This cytokine and the hepatocyte growth factor (HGF) form a heterodimer that functions as a pre-pro-B cell growth-stimulating factor. This cytokine is found to be a cofactor for V(D)J rearrangement of the T cell receptor beta (TCRB) during early T cell development. This cytokine can be produced locally by intestinal epithelial and epithelial goblet cells, and may serve as a regulatory factor for intestinal mucosal lymphocytes. Knockout studies in mice suggested that this cytokine plays an essential role in lymphoid cell survival. [provided by RefSeq |
| **Other Designations** | IL7 nirs variant 6 |

## Publication Reference


- Interleukin 7 is produced by human intestinal epithelial cells and regulates the proliferation of intestinal mucosal lymphocytes.

  Watanabe M, Ueno Y, Yajima T, Iwao Y, Tsuchiya M, Ishikawa H, Aiso S, Hibi T, Ishii H.

  The Journal of Clinical Investigation 1995 Jun; 95(6):2945.

- Lymphopenia in interleukin (IL)-7 gene-deleted mice identifies IL-7 as a nonredundant cytokine.

  von Freeden-Jeffry U, Vieira P, Lucian LA, McNeil T, Burdach SE, Murray R.

  The Journal of Experimental Medicine 1995 Apr; 181(4):1519.


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- Interleukin-7 expression during mouse thymus development.

  Wiles MV, Ruiz P, Imhof BA.

  European Journal of Immunology 1992 Apr; 22(4):1037.

## Pathway

- Cytokine-cytokine receptor interaction
- Hematopoietic cell lineage
- Jak-STAT signaling pathway

## Disease

- Asthma
- Bronchiolitis
- Cardiovascular Diseases
- Celiac Disease
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Infant
- Multiple Sclerosis
- Respiratory Syncytial Virus Infections

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