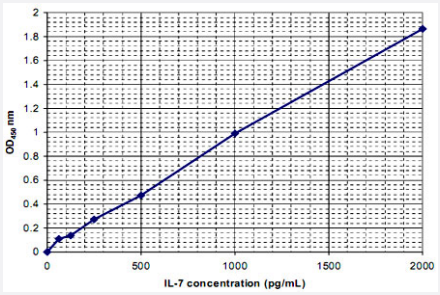
IL7 (Human) ELISA Kit

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 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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