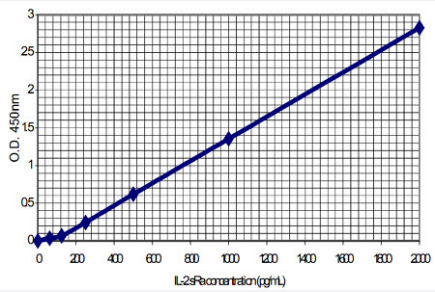
IL2RA (Human) ELISA Kit

Catalog # KA0522 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	IL2RA (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human IL2RA.
Suitable Sample	Cell Culture Supernatant, Plasma, Serum
Sample Volume	100 uL
Label	Biotin-conjugate
Detection Method	Colorimetric
Assay Type	Quantitative
Intra-Assay	5.62%
Inter-Assay	6.27%
Spiking Recovery	Serum: 105.00%, Plasma (EDTA): 104.00%, Plasma (Heparin): 104.00%, Plasma (Citrate): 105.00%, Cell Culture Supernatant: 104.00%
Calibration Range	10 to 2000 pg/mL
Limit of Detection	10 pg/mL
Reactivity	Human

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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 unknown s. A standard curve should be generated each time the assay is performed.
Storage Instruction	Store the kit at 4°C.

Applications

- Quantification

Gene Info — IL2RA

Entrez GeneID	3559
Gene Name	IL2RA
Gene Alias	CD25, IDDM10, IL2R, TCGFR
Gene Description	interleukin 2 receptor, alpha
Omim ID	147730 601942
Gene Ontology	Hyperlink
Gene Summary	The interleukin 2 (IL2) receptor alpha (IL2RA) and beta (IL2RB) chains, together with the common gamma chain (IL2RG), constitute the high-affinity IL2 receptor. Homodimeric alpha chains (IL2RA) result in low-affinity receptor, while homodimeric beta (IL2RB) chains produce a medium-affinity r eceptor. Normally an integral-membrane protein, soluble IL2RA has been isolated and determine d to result from extracellular proteolyisis. Alternately-spliced IL2RA mRNAs have been isolated, b ut the significance of each is presently unknown. [provided by RefSeq
Other Designations	Interleukin-2 receptor|OTTHUMP00000019030|OTTHUMP00000044870|interleukin 2 receptor, al pha chain

Publication Reference

- Use of whole blood for analysis of disease-associated biomarkers.

  May JE, Pemberton RM, Hart JP, McLeod J, Wilcock G, Doran O.

  Analytical Biochemistry 2013 Jun; 437(1):59.

  Application: ELISA, Human, Human plasma

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- Severe combined immunodeficiency, interleukin-2 (IL-2), and the IL-2 receptor: experiments of nature continue to point the way.

  Voss SD, Hong R, Sondel PM.

  Blood 1994 Feb; 83(3):626.

- The interleukin 2 receptor. Functional consequences of its bimolecular structure.

  Wang HM, Smith KA.

  The Journal of Experimental Medicine 1987 Oct; 166(4):1055.

- Interleukin 2 high-affinity receptor expression requires two distinct binding proteins.

  Teshigawara K, Wang HM, Kato K, Smith KA.

  The Journal of Experimental Medicine 1987 Jan; 165(1):223.

Pathway

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

Disease

- Acquired Immunodeficiency Syndrome
- Addison Disease
- Alopecia Areata
- Alzheimer Disease
- Arthritis
- Asthma
- Atrial Fibrillation
- Autoimmune Diseases

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- Bronchiolitis
- Carcinoma
- Cardiovascular Diseases
- Celiac Disease
- Chorioamnionitis
- Colitis
- Connective Tissue Diseases
- Crohn Disease
- Diabetes Mellitus
- Disease Progression
- Edema
- Fetal Diseases
- Fetal Membranes
- Genetic Predisposition to Disease
- Graves Disease
- Hyperparathyroidism
- Hypersensitivity
- Infant
- Infection
- Inflammation
- Lupus Erythematosus
- Measles
- Melanoma
- Multiple Sclerosis
- Mumps
- Musculoskeletal Diseases

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- Obstetric Labor
- Prediabetic State
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostatic Neoplasms
- Respiratory Syncytial Virus Infections
- Rubella
- Skin Diseases
- Thyroid Diseases
- Vasculitis
- Vitiligo

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