

Human Interleukin 13 (IL-13) ELISA Kit

Catalog No: #EK12042



Package Size: #EK12042-1 48T #EK12042-2 96T

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Description

Product Name	Human Interleukin 13 (IL-13) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ALRH; BHR1; IL-13; MGC116786; MGC116788; MGC116789; P600;
Accession No.	Q9XSV9
Uniprot	Q9XSV9
GeneID	281247;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:5.9 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate IL13 in samples. An antibody specific for IL13 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyIL13 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for IL13 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of IL13 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Interleukin 13 (IL-13) is produced primarily by activated T lymphocytes. It shows approximately 30% amino acid (aa) sequence identity with IL-4 and shares many biological properties with IL-4. IL-13 has multiple effects on the differentiation and functions of monocytes/macrophages. It can suppress the cytotoxic functions of monocytes/macrophages and the production of proinflammatory cytokines by monocytes/macrophages. The biological effects of IL-13 are mediated by specific high-affinity cell surface receptor complexes. The functional IL-13 receptor complex has been shown to consist of the low-affinity IL-13 receptor α chain and the IL-4 receptor α subunit (IL-4 R α). This IL-13 receptor complex may also serve as an alternate high-affinity IL-4 receptor complex in IL-4 responsive cells that lack the γ chain.

Note: This product is for in vitro research use only