



Mouse Interleukin 12,IL-12/P70 ELISA KIT

Product Code	CSB-E04600m
Abbreviation	IL12/P70
Protein Biological Process 1	Cytokine
Target Name	Interleukin 12,IL-12/P70
Alias	N/A
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, homogenates
Detection Range	62.5 pg/ml -4000 pg/ml
Sensitivity	15.6 pg/ml
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Tag Info	quantitative
Protein Description	Sandwich

Description

The mouse IL-12 ELISA kit is a solid-phase immunoassay specially designed to quantitatively measure mouse IL-12 in serum, plasma, or homogenates. It is based on the Sandwich-ELISA mechanism. IL-12 in the sample is bound to the capture antibody immobilized on the 96-well strip plate and then sandwiched with the biotinylated IL-12 antibody. After the addition of HRP-avidin and TMB substrate, the solution in the wells turns blue. The color reaction is stopped by adding the stop solution into the wells, and the color changes from blue to yellow. The color intensity is positively proportional to the IL-12 bound in the initial step. The IL-12 concentration can be calculated according to the standard curve. This kit is tested with high sensitivity and strong specificity.

IL-12 mainly functions to promote the differentiation of Th1 cells and to induce type II interferon (IFN)- γ production. IL-12 is also required for optimal IL-2-dependent proliferation and clonal expansion. It is produced by antigen-presenting cells and plays an important role in host defense against intracellular microbial infection and control of malignancy via its ability to stimulate both innate and adaptive immune effector cells. Significant elevation of IL-12 levels in plasma has been found in many types of atherosclerosis and atherosclerotic



cardiovascular disease, including stable angina pectoris (SAP), ST-elevation myocardial infarction (STEMI), and acute myocardial infarction (AMI). IL-12 interacts with its receptor, stimulating JAK2 and TYK2 activity, activating MAPK and PI3K/Akt signal cascades.

Product Precision

Linearity

Recovery

Typical

Msds

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