

Datasheet for ABIN6719694

IL12 ELISA Kit[Go to Product page](#)**1** Image

Overview

Quantity:	1 kit
Target:	IL12
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	7.8 pg/mL - 500 pg/mL
Minimum Detection Limit:	7.8 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: CLMF, CLMF p35, Cytotoxic lymphocyte maturation factor 1, Cytotoxic lymphocyte maturation factor 1 p35, Cytotoxic lymphocyte maturation factor 35 kDa subunit, IL-12 subunit p35, IL-12A, IL12A, IL12A_HUMAN, IL35 subunit, Interleukin 12 alpha chain, Interleukin 12 p35, Interleukin 12 p70, Interleukin-12 subunit alpha, Natural killer cell stimulatory factor 1, Natural killer cell stimulatory factor 1 35 kD subunit, NF cell stimulatory factor chain 1, NFSK, NK cell stimulatory factor chain 1, NKSF1, P35</p> <p>Background: Interleukin(IL)-12 is a 70-KDa cytokine comprised of two disulfide-linked proteins(p35 and p40) and is essential for the initiation of effective immune response.[i] And the</p>

Product Details

IL-12p70 is a heterodimer of p35 and p40 subunits, it is an important cytokine secreted by antigen-presenting cells in response to antigenic stimulation.[ii] Gene expression analysis of the IL-12 cytokine family subunits revealed that both strains induced high levels of p40(protein chain communal to IL-12 p70 and IL-23) as well as p19, a subunit of IL-23. Conversely only ACT- 18HS19 infection induced consistent transcription of IL-12 p35, a subunit of IL-12 p70.[iii] The standard product used in this kit is recombinant human IL-12 p70 with the molecular mass of 75 KDa.

Gene Name: IL12A

Production: Natural and recombinant human IL-12(P70). There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: SF21, Immunogen sequence: (I23-S328)+(R23-S219)

Target Details

Target: IL12

Alternative Name: IL-12(p70) ([IL12 Products](#))

Gene ID: 3592

NCBI Accession: [NP_000873](#)

UniProt: [O60595](#)

Pathways: [JAK-STAT Signaling](#), [TLR Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Activated T Cell Proliferation](#), [Cancer Immune Checkpoints](#), [Inflammasome](#)

Application Details

Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.3pg/mL, 15.6pg/mL, 7.8pg/mL human IL-12(P70) standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates or serum to each empty well. We recommend that each human IL-12(P70) standard solution and each sample is measured in duplicate.
ELISA Dilution: 7.8pg/mL-500pg/mL

Sample Volume: 100 µL

Application Details

Plate: Pre-coated

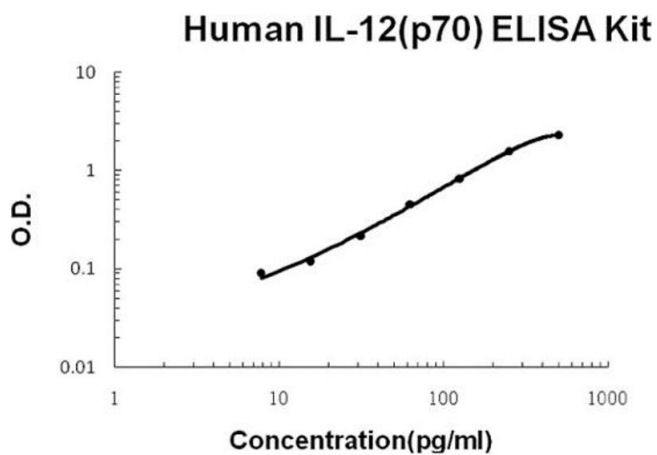
Restrictions: For Research Use only

Handling

Storage: RT, 4 °C, -20 °C

Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Images



ELISA

Image 1. Human IL-12(p70) Accusignal ELISA Kit Human IL-12(p70) AccuSignal ELISA Kit standard curve. Assay Range: 7.8pg/ml-500pg/ml Sensitivity: <2pg/ml.