

Datasheet for ABIN6719989

IL12B ELISA Kit**1** Image[Go to Product page](#)

Overview

Quantity:	1 kit
Target:	IL12B
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	15.6 pg/mL - 1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Mouse IL-12(p40) Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin - citrate), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant mouse IL-12(p40). There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 10 pg/mL
Components:	<ul style="list-style-type: none">• Antibody-coated 96-well plate• Target Protein Standard• Detection antibody

Product Details

- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

Target Details

Target: IL12B

Alternative Name: IL-12(p40) ([IL12B Products](#))

Background: Synonyms: CLMF, CLMF p40, CLMF2, Cytotoxic lymphocyte maturation factor 40 kDa subunit, IL 12B, IL-12 subunit p40, IL-12B, IL12 p40, IL12B, IL12B_HUMAN, Interleukin 12 subunit beta, NK cell stimulatory factor chain 2, NKSF, NKSF2

Background: Interleukin-12(IL12, formerly NKSF, for natural killer cell stimulatory factor, or CLMF, for cytotoxic lymphocyte maturation factor) is a novel cytokine cloned from B-cell lines. IL-12 is a heterodimeric molecule composed of p35 and p40 subunits.¹ The larger 40- kDa subunit(p40) is a member of the cytokine receptor family, and the smaller 35- kDa subunit(p35) is related to IL6 and GCSF.² Both IL-12 p40(-/-) and p35(-/-) mice fail to produce IL-12 p70 heterodimer.³ Interleukin(IL)-12 has been cloned on the basis of its ability to activate natural killer(NK) cells and promote the development of cytolytic T cells. With further understanding of its activities, IL-12 has emerged as an important cytokine, affecting both immune and hematologic functions. It has been shown to be necessary for the T cell independent induction of interferon(IFN)-gamma, critical for the initial suppression of bacterial and parasitic infection, for the development of a Th1 response, critical for effective host defense against intracellular pathogens, and for the activation of differentiated T lymphocytes of both CD4+ and CD8+ phenotype.

Gene ID: 16160

NCBI Accession: [NP_001290173](#)

UniProt: [P43432](#)

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

Application Details

Application Notes: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL mouse IL-12(p40) 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 mouse cell culture supernates, serum or plasma(heparin, EDTA, citrate) to each empty well. It is recommended that each mouse IL-12(p40) standard solution and each sample be measured in duplicate.

Comment: Standard: Expression system for standard: sf21, Immunogen sequence: M23-S335

Sample Volume: 100 µL

Plate: Pre-coated

Restrictions: For Research Use only

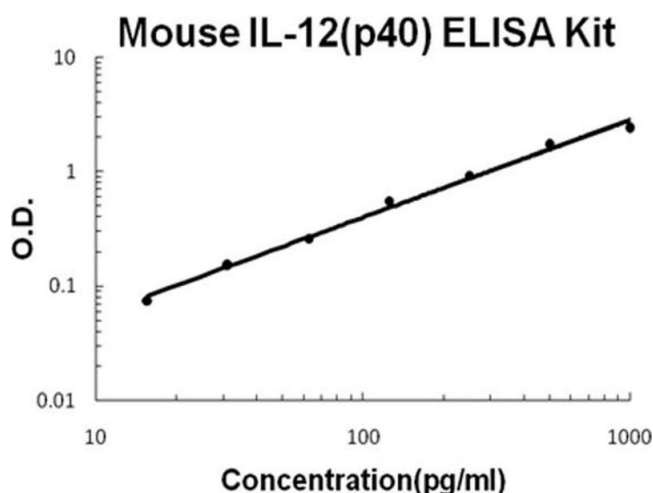
Handling

Storage: 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.

Expiry Date: 12 months

Images



ELISA

Image 1. Mouse IL-12(p40) Accusignal ELISA Kit Mouse IL-12(p40) AccuSignal ELISA Kit standard curve. Assay Range: 15.6pg/ml-1000pg/ml. Sensitivity: <10pg/ml.