

Datasheet for KOA0236**Human IL-12 (p40) ELISA Kit****Overview**

Description:	Human IL-12(p40) AccuSignal ELISA Kit - KOA0236
Item No.:	KOA0236
Size:	1 Kit
Applications:	ELISA
Reactivity:	H. sapiens (Human)
Range:	31.2 pg/ml - 2000 pg/ml

Product Details

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. 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. Both IL-12 p40(-/-) and p35(-/-) mice fail to produce IL-12 p70 heterodimer. 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. The subunits map to different chromosomes: p40(IL12B) to 5q31-q33 and p35(IL12A) to 3p12-3q13.2.2 The standard product used in this kit is recombinant human IL-12(p40), which is a 40KDa glycoprotein consisting of 306 amino acids.
Synonyms:	40 kD Subunit, CLMF, CLMF p40, CLMF2, Cytotoxic lymphocyte maturation factor 2, Cytotoxic lymphocyte maturation factor 2 p40, Cytotoxic lymphocyte maturation factor 40 kDa subunit, IL 12 subunit p40, IL-12B, IL12 subunit p40, IL12B_HUMAN, Interleukin 12 beta chain, Interleukin 12 p40, Interleukin 12B, Interleukin-12 subunit beta, Interleukin12B, Natural killer cell stimulatory factor 40 kD subunit, NK cell stimulatory factor chain 2, Subunit P40, T cell stimulating factor, TcMF, TSF
Detection Kit Type:	ELISA Kit
Detection Range:	31.2 pg/ml - 2000 pg/ml

Sensitivity: <2 pg/ml

Target Details

Gene Name:	IL12B
Reactivity:	H. sapiens (Human)
Immunogen:	Expression system for standard: SF21; Immunogen sequence: I23-S328
Purity/Specificity:	Natural and recombinant human IL-12(P40). There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P29460 • NCBI - NP_002178.2 • GeneID - 3593 • KOA0236 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml human IL-12 (P40) standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA, citrate) to each empty well. It is recommended that each human IL-12(P40) standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Anticoagulant: Heparin Sodium

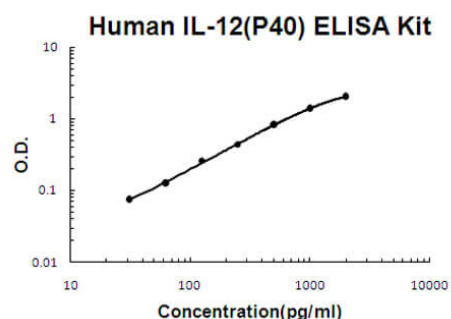
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: 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.

Expiration: See kit insert for complete instructions.

Images



ELISA

Human IL-12(p40) AccuSignal ELISA Kit standard curve. Assay Range: 31.2pg/ml-2000pg/ml. Sensitivity: <2pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.