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Datasheet for KOA0234

Human IL-12 (p70) ELISA Kit

Overview

Description:	Human IL-12(p70) AccuSignal ELISA Kit - KOA0234
Item No.:	KOA0234
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	7.8 pg/ml - 500 pg/ml

Product Details

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 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.
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
Detection Kit Type:	ELISA Kit
Detection Range:	7.8 pg/ml - 500 pg/ml
Sensitivity:	<2 pg/ml

Target Details

Gene Name:	IL12A
Reactivity:	Human

Immunogen:	Expression system for standard: SF21; Immunogen sequence: (I23-S328)+(R23-S219)
Purity/Specificity:	Natural and recombinant human IL-12(P70). There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• KOA0234 SDS • UniProtKB - O60595 • NCBI - NP_000873.2 • GeneID - 3592 • KOA0234 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml 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 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates or serum to each empty well. We recommend that each human IL-12(P70) standard solution and each sample is measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Detection Range 7.8 pg/ml - 500 pg/ml DOE: @4°C 03/11/2027 @-20° 09/09/2027

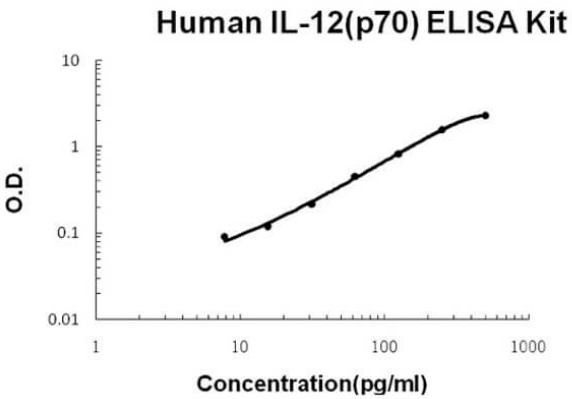
Formulation

Concentration:	1 Kit

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(p70) AccuSignal ELISA Kit standard curve. Assay Range: 7.8pg/ml-500pg/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.