

Datasheet for KOA0229**Human IL-10 ELISA Kit****Overview**

Description:	Human IL-10 AccuSignal ELISA Kit - KOA0229
Item No.:	KOA0229
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	7.8 pg/ml - 500 pg/ml (cell culture supernates), 3.4 pg/ml - 250 pg/ml (serum, plasma)

Product Details

Background:	Interleukin-10, also called cytokine synthesis inhibitory factor, is implicated in tumorigenesis, and it has been shown that polymorphisms in its gene promoter correlate with differential amounts of production. IL-10 is an important cytokine with anti-inflammatory, anti-immune, and antifibrotic functions. It is also an important regulatory cytokine whose involvement extends into diverse areas of the human immune system. IL-10 is a recently described natural endogenous immunosuppressive cytokine that has been identified in human, murine, and other organisms. IL-10 significantly affects chemokine biology, because human IL-10 inhibits chemokine production and is a specific chemotactic factor for CD8+ T cells. It suppresses the ability of CD4+ T cells, but not CD8+ T cells, to migrate in response to IL-8. Interleukin-10 gene polymorphisms and interleukin-10 production capability may contribute to the development of skin squamous cell carcinomas after renal transplantation. ¹ The interleukin-10 locus contributes to the heritability of psoriasis susceptibility. With regard to sudden infant death, IL-10 is of special interest. This is an immunoregulatory cytokine that plays an important role in the development of infectious disease. The mIL-10 gene is mapped to mouse chromosome 1 and the hIL-10 gene is also mapped to human chromosome 1. The standard product used in this kit is recombinant human IL-10, consisting of 160 amino acids with the molecular mass of 18.6kDa.
Synonyms:	CSIF, Cytokine synthesis inhibitory factor, GVHDS, IL 10, IL-10, IL10, IL10_HUMAN, IL10A, Interleukin 10, Interleukin-10, Interleukin10, MGC126450, MGC126451, T cell growth inhibitory factor, TGIF
Detection Kit Type:	ELISA Kit
Detection Range:	7.8 pg/ml - 500 pg/ml (cell culture supernates), 3.4 pg/ml - 250 pg/ml (serum, plasma)
Sensitivity:	<0.5 pg/ml

Target Details

Gene Name:	IL10
Reactivity:	Human
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: S19-N178
Purity/Specificity:	Natural and recombinant human IL-10. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	KOA0229 SDS UniProtKB - P22301 NCBI - NP_000563.1 GeneID - 3586 KOA0229 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-10 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. We recommend that each human IL-10 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.
ELISA:	7.8pg/ml-500pg/ml (cell culture supernates) or 3.4pg/ml-250pg/ml (human serum, plasma)
Other:	DOE: 2-8° C - 03/02/2023 -20° C - 09/02/2023

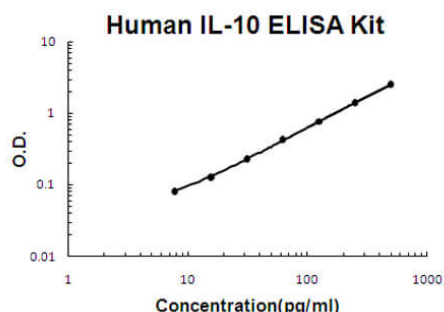
Formulation

Concentration:	1 Kit
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-10 AccuSignal ELISA Kit standard curve. Assay

Range: 7.8pg/ml-500pg/ml(cell culture supernates)3.4pg/ml-250pg/ml(human serum, plasma). Sensitivity: <0.5pg/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.