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Datasheet for KOA0225

Human IL-6 ELISA Kit

Overview

Description:	Human IL-6 AccuSignal ELISA Kit - KOA0225
Item No.:	KOA0225
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	4.69 pg/ml - 300 pg/ml

Product Details

Background:	The human interferon-beta 2 gene(IFNB2) product is identical to that for the B-cell stimulation factor-2(BSF-2), the hybridoma growth factor(HGF)("interleukin-6"), and the hepatocyte stimulating factor(HSF). Proteins derived from this gene mediate the plasma protein response to tissue injury(acute-phase response) and regulate the growth and differentiation of both B and T cells. Interleukin-6(IL6) has come to be regarded as a potential osteoporotic factor because it has stimulatory effects on cells of the osteoclast lineage, and, thus, may play a role in the pathogenesis of bone loss associated with estrogen deficiency. IL-6 has many roles essential to the regulation of the immune response, hematopoiesis, and bone resorption. It is involved not only in the hepatic acute phase response but also in adipose tissue metabolism, lipoprotein lipase activity, and hepatic triglyceride secretion. Overproduction of IL-6, a proinflammatory cytokine, is associated with a spectrum of age-related conditions including cardiovascular disease, osteoporosis, arthritis, type 2 diabetes, certain cancers, periodontal disease, frailty, and functional decline. BSF-2 is a novel interleukin consisting of 184 amino acids. The standard product used in this kit is recombinant human IL-6, consisting of 184 amino acids with the molecular mass of 20.3kDa.
Synonyms:	B cell differentiation factor, B cell stimulatory factor 2, B-cell stimulatory factor 2, BSF 2, BSF-2, BSF2, CDF, CTL differentiation factor, Cytotoxic T cell differentiation factor, Hepatocyte stimulating fact, HGF, HPGF, HSF, Hybridoma growth factor, Hybridoma plasmacytoma growth factor, IFN-beta-2, IFNB2, IL 6, IL-6, IL6, IL6 protein, IL6_HUMAN, Interferon beta 2, Interferon beta-2, Interleukin 6, Interleukin 6 (interferon beta 2), Interleukin BSF 2, Interleukin-6, Interleukin6
Detection Kit Type:	ELISA Kit
Detection Range:	4.69 pg/ml - 300 pg/ml

Sensitivity:	<0.3 pg/ml

Target Details

Gene Name:	IL6
Reactivity:	Human
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: P29-M212
Purity/Specificity:	Natural and recombinant human IL-6 . There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• KOA0225 SDS • UniProtKB - B4DVM1 • NCBI - NP_000591.1 • GeneID - 3569 • KOA0225 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 300pg/ml, 150pg/ml, 75pg/ml, 37.5pg/ml, 18.75pg/ml, 9.38pg/ml, 4.69pg/ml human IL-6 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-6 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:	4.69pg/ml-300pg/ml
Other:	DOE: 2-8° C - 12/2/2026 -20° C - 06/2/2027

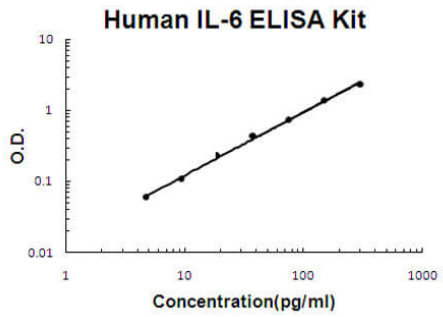
Formulation

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-6 AccuSignal ELISA Kit standard curve. Assay Range: 4.69pg/ml-300pg/ml. Sensitivity: <0.3pg/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.