

Datasheet for KOA0227

Rat IL-6 ELISA Kit

Overview

Description:	Rat IL-6 AccuSignal ELISA Kit - KOA0227
Item No.:	KOA0227
Size:	1 Kit
Applications:	ELISA
Reactivity:	Rat
Range:	62.5 pg/ml - 4000 pg/ml

Product Details

Background:	Interleukin-6(IL-6) is a protein that in humans is encoded by the IL6 gene. Interleukin-6(IL-6) is involved not only in the hepatic acute phase response but also in adipose tissue metabolism, lipoprotein lipase activity, and hepatic triglyceride secretion. IL-6 is a pleiotropic cytokine that plays a critical role in bone resorption. IL-6 has been suggested to stimulate the HPA axis during immune activation independent of the input of hypothalamic corticotropin-releasing hormone (CRH). Interleukin-6(IL-6) is an immunoregulatory cytokine that activates a cell-surface signaling assembly composed of IL-6, the IL-6 alpha-receptor(IL-6Ralpha), and the shared signaling receptor gp130. The standard product used in this kit is recombinant rat IL-6, consisting of 188 amino acids with the molecular mass of 21.8kDa.
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:	62.5 pg/ml - 4000 pg/ml
Sensitivity:	<5 pg/ml

Target Details

Gene Name:	IL6
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Reactivity:	Rat
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: F25-T211
Purity/Specificity:	Natural and recombinant rat IL-6. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - P20607 • NCBI - NP_036721.1 • GenelD - 24498 • KOA0227 Protocol

Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml rat 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 rat cell culture supernates, serum or plasma(heparin, EDTA, citrate) to each empty well. It is recommended that each rat IL-6 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.

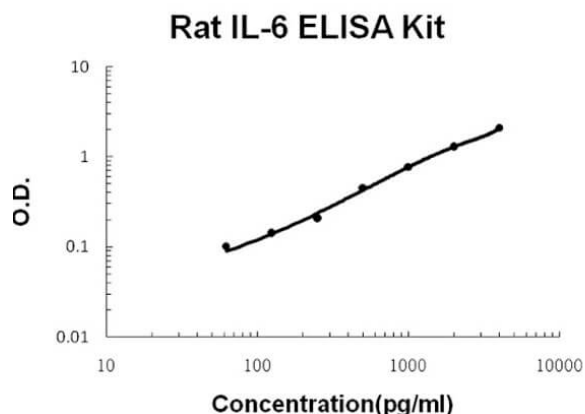
Formulation

Anticoagulant:	Heparin Sodium
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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**

Rat IL-6 AccuSignal ELISA Kit standard curve. Assay
Range: 62.5pg/ml-4000pg/ml. Sensitivity: <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.