

Datasheet for KOA0210**Rat IL-1 beta ELISA Kit****Overview**

Description:	Rat IL-1 beta AccuSignal ELISA Kit - KOA0210
Item No.:	KOA0210
Size:	1 Kit
Applications:	ELISA
Reactivity:	Rat
Range:	31.2 pg/ml - 2000 pg/ml

Product Details

Background:	The Interleukin 1 family is a group of 11 beta trefoil cytokines. Interleukin-1, produced mainly by blood monocytes, mediates the panoply of host reactions collectively known as acute phase response . Interleukin-1beta(IL-1beta) is a potent stimulator of bone resorption, and has been implicated in the pathogenesis of high bone turnover and osteoporosis. IL-1beta belongs to proinflammatory cytokines, promote cancer cell adhesion and liver metastases by up-regulating the expression of vascular cell adhesion molecule-1(VCAM-1) on hepatic sinusoidal endothelium (HSE).
Synonyms:	Catabolin, Hematopoietin 1, IFN beta inducing factor, IL 1, IL 1 beta, IL 1B, IL-1 beta, IL1, IL1 BETA, IL1B, IL1B_HUMAN, IL1F2, Interleukin 1 beta, Interleukin 1 beta precursor, Interleukin-1 beta, LAF, OAF, Osteoclast activating factor, Preinterleukin beta, Pro interleukin 1 beta
Detection Kit Type:	ELISA Kit
Detection Range:	31.2 pg/ml - 2000 pg/ml
Sensitivity:	<1 pg/ml

Target Details

Gene Name:	IL1B
Reactivity:	Rat
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: V117-S268
Purity/Specificity:	Natural and recombinant rat IL-1 beta. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:	• UniProtKB - Q5BKB0 • NCBI - NP_113700.2 • GeneID - 24494 • KOA0210 Protocol
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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 rat IL-1 beta 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 supernatants, serum or plasma(heparin, EDTA) to each empty well. We recommend that each rat IL-1 beta 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:	31.2pg/ml-2000pg/ml
Other:	DOE 2-8° C - 011/12/2025 -20° C - 05/13/2026

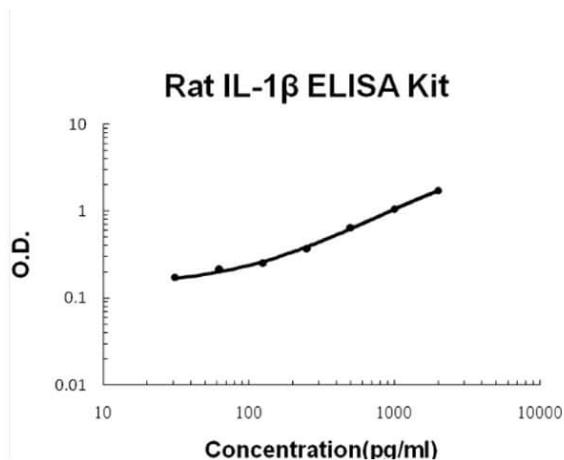
Formulation

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

Rat IL-1 beta AccuSignal ELISA Kit standard curve. Assay
Range: 31.2pg/ml-2000pg/ml. Sensitivity: <1pg/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.