

Datasheet for ABIN6719718 IL-1 beta ELISA Kit



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1 Image

Overview

Quantity:	1 kit
Target:	IL-1 beta (IL1B)
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>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</p> <p>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</p>

Product Details

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).

Gene Name: IL1B

Production: Natural and recombinant rat IL-1 beta. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: V117-S268

Target Details

Target: IL-1 beta (IL1B)

Alternative Name: IL-1 beta ([IL1B Products](#))

Gene ID: 24494

NCBI Accession: [NP_113700](#)

UniProt: [Q5BKB0](#)

Pathways: [NF-kappaB Signaling](#), [Interferon-gamma Pathway](#), [TLR Signaling](#), [Negative Regulation of Hormone Secretion](#), [Cellular Response to Molecule of Bacterial Origin](#), [Carbohydrate Homeostasis](#), [Glycosaminoglycan Metabolic Process](#), [Myometrial Relaxation and Contraction](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Autophagy](#), [Cancer Immune Checkpoints](#), [Inflammasome](#)

Application Details

Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL 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 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL 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.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 31.2pg/mL-2000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

Application Details

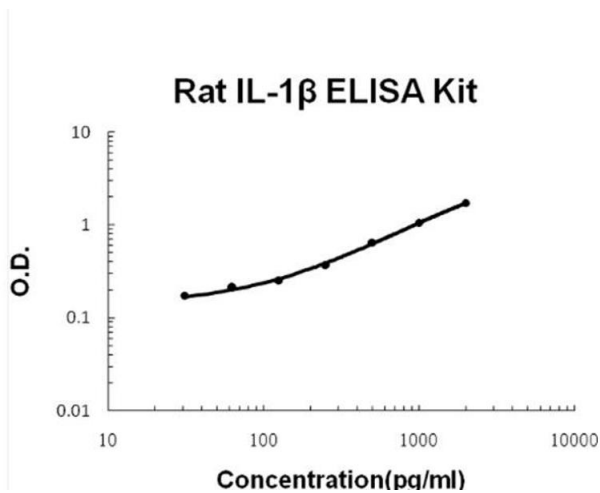
Restrictions: For Research Use only

Handling

Storage: RT, 4 °C, -20 °C

Storage Comment: 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.

Images



ELISA

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