

Datasheet for ABIN6719744
IL-1 beta ELISA Kit



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1 Image

Overview

Quantity:	1 kit
Target:	IL-1 beta (IL1B)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	3.9 pg/mL - 250 pg/mL
Minimum Detection Limit:	3.9 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin - citrate), 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: Interleukin-1beta(IL-1beta) is a potent stimulator of bone resorption whose gene is mapped to 2q14, and has been implicated in the pathogenesis of high bone turnover and osteoporosis. IL-1beta, a prominent microglia-derived cytokine, caused oligodendrocyte death in coculture with astrocytes and microglia, but not in pure culture of oligodendrocytes alone. It</p>

Product Details

also can cause nuclear export of a specific NCOR corepressor complex, resulting in derepression of a specific subset of nuclear factor-kappa-B(NFKB)-regulated genes. Furthermore, Microenvironmental IL-1beta and, to a lesser extent, IL-1alpha are required for in vivo angiogenesis and invasiveness of different tumor cells. Additionally, the cooperation of IL-1beta and PDGFB induces contractile-to-synthetic phenotype modulation of human aortic smooth muscle cells in culture. Moreover, the association with disease may be explained by the biologic properties of IL-1beta, which is an important proinflammatory cytokine and a powerful inhibitor of gastric acid secretion.

Gene Name: IL1B

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

Standard: Expression system for standard: E.coli, Immunogen sequence: A117-S269

Target Details

Target:	IL-1 beta (IL1B)
Alternative Name:	IL-1 beta (IL1B Products)
Gene ID:	3553
NCBI Accession:	NP_000567
UniProt:	P01584
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 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 16.5pg/mL, 7.8pg/mL, 3.9pg/mL human 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 human cell culture supernatants, serum or plasma(heparin, EDTA, citrate) to each empty well. We recommend that each human IL-1 beta standard solution and each sample is measured in duplicate.

Application Details

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 3.9pg/mL-250pg/mL

Sample Volume: 100 μ L

Plate: Pre-coated

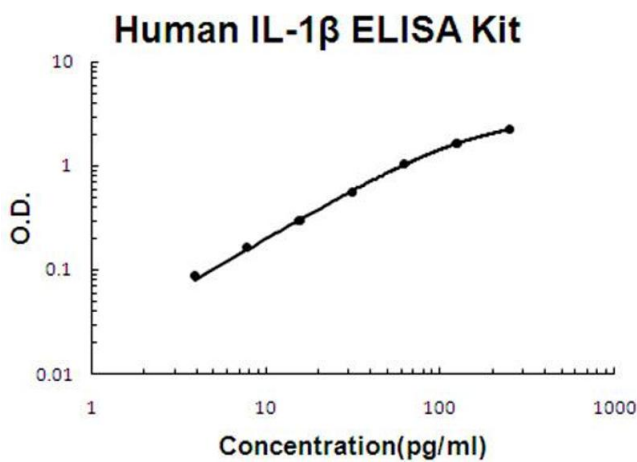
Restrictions: For Research Use only

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. Human IL-1 beta Accusignal ELISA Kit Human IL-1 beta AccuSignal ELISA Kit standard curve. Assay Range: 3.9pg/ml-250pg/ml. Sensitivity: <0.15pg/ml.