

Datasheet for ABIN6719686

IL1A ELISA Kit**1** Image[Go to Product page](#)

Overview

Quantity:	1 kit
Target:	IL1A
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	4.69 pg/mL - 300 pg/mL
Minimum Detection Limit:	4.69 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: Hematopoietin 1, IFL, IFN, IFN alpha, IFN-alpha-1/13, IFNA@, IFNA1, IFNA1_HUMAN, IFNA13, IFNAP22, IL 1 alpha, Il 1a, IL1, IL1 ALPHA, IL1F1, IliA, Interferon Alpha, Interferon alpha 1, Interferon alpha 1/13, Interferon alpha 1/13 precursor, Interferon alpha 13, Interferon alpha D, Interferon alpha leukocyte, Interferon alpha-1/13, Interferon alpha-D, Interferon leukocyte, Interleukin 1 alphas, Interleukin1 alpha, LeIF D, Preinterleukin 1, Pro interleukin 1, Pro interleukin 1 alpha, Prointerleukin 1</p> <p>Background: Interleukin-1 alpha(IL-1 alpha) and interleukin-1 beta(IL-1 beta) are two biochemically distinct, but distantly related, polypeptidic cytokines that play a key role in</p>

Product Details

inflammation, immunologic reactions, and tissue repair. IL-1 alpha has been implicated in the pathogenesis of infectious, autoimmune and inflammatory diseases. Recently, it has been shown that IL-1 alpha is identical to hematopoietin 1, which is described as a hematopoietic growth factor acting on early progenitor cells in synergy with other hematopoietic growth factors.¹ The human interleukin 1 alpha gene is assigned to chromosome 2. Genetic polymorphisms at interleukin(IL)-1alpha and IL-1beta have been recently suggested to be associated with severity of adult periodontitis. The murine IL-1 alpha and IL-1 beta genes encode structurally and evolutionarily related cytokines that exert a regulatory role in numerous physiological processes including hemopoiesis. The standard product used in this kit is recombinant rat IL-1alpha with the molecular mass of 18 kDa.

Gene Name: IL1A

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

Standard: Expression system for standard: E.coli, Immunogen sequence: S115-S270

Target Details

Target: IL1A

Alternative Name: IL-1 alpha ([IL1A Products](#))

Gene ID: 24493

NCBI Accession: [NP_058715](#)

UniProt: [P16598](#)

Pathways: [NF-kappaB Signaling](#), [Autophagy](#), [Cancer Immune Checkpoints](#)

Application Details

Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 300pg/mL, 150pg/mL, 75pg/mL, 37.5pg/mL, 18.8pg/mL, 9.4pg/mL, 4.69pg/mL rat IL-1 alpha 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 supernates or serum to each empty well. We recommend that each rat IL-1 alpha standard solution and each sample is measured in duplicate.

ELISA Dilution: 4.69pg/mL-300pg/mL

Sample Volume: 100 µL

Application Details

Plate: Pre-coated

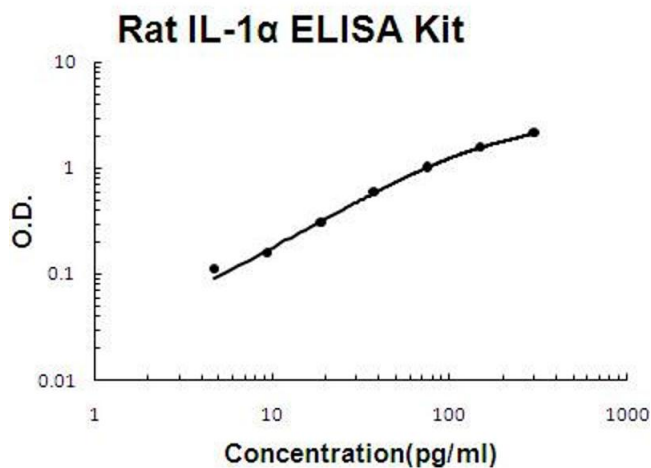
Restrictions: For Research Use only

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. Rat IL-1 alpha Accusignal ELISA Kit Rat IL-1 alpha AccuSignal ELISA Kit standard curve. Assay Range: 4.69pg/ml-300pg/ml. Sensitivity: <0.5pg/ml.