antibodies

Datasheet for ABIN6239756 IL-1 beta Protein (AA 117-269) (His tag)

2 Images



Overview

Quantity:	50 µg
Target:	IL-1 beta (IL1B)
Protein Characteristics:	AA 117-269
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This IL-1 beta protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 95 %
Biological Activity Comment:	IL-1β (Interleukin-1 beta) is a proinflammatory and immunoregulatory cytokine involved in a variety of cellular activities. It is produced by activated macrophages as a proprotein, and then proteolytically processed to an active form. It has been reported that IL-1β-induced IL-6 production is mediated by both PI3K and IRAK4 in A549 cells. To detect the bioactivity of IL-1β, A549 cells were seeded into 24-well plate at a density of 1x105cells/mL, and allowed to attach overnight before treated with or without certain concentrations (1ng/mL, 10ng/mL) of IL1-β for 4h and IL-6 levels in the cell supernatant were determined by ELISA. IL-6 levels in the cell supernatant of A549 cells increased significantly after stimulated with IL1-β, the data was shown in Table 1 and Figure 1. Sample Concentration of IL-6 O.D. value Corrected (cell supernatant of A549 cells) (ng/mL) stimulated with IL-1β (1ng/mL) 0.665 0.609 2.36 stimulated

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Target Details

Target:	IL-1 beta (IL1B)
Alternative Name:	Interleukin 1 Beta (IL1b) (IL1B Products)
Background:	Alternative Names: IL1-B, IL1-Beta, IL1F2, IL-1β, Interleukin-1 Family Member 2, Catabolin
Molecular Weight:	21kDa
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:	Isoelectric Point: 7.1
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

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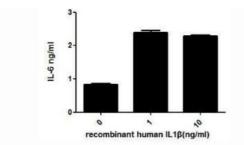
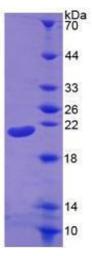


Figure 1. IL-6 levels in the cell supernatant of A549 cells up-regulated by IL1-β.

Image 1. IL-1 β (Interleukin-1 beta) is a proinflammatory and immunoregulatory cytokine involved in a variety of cellular activities. It is produced by activated macrophages as a proprotein, and then proteolytically processed to an active form. It has been reported that IL-1 β -induced IL-6 production is mediated by both PI3K and IRAK4 in A549 cells. To detect the bioactivity of IL-1 β , A549 cells were seeded into 24-well plate at a density of 1x105cells/mL, and allowed to attach overnight before treated with or without certain concentrations (1ng/mL, 10ng/mL) of IL1- β for 4h and IL-6 levels in the cell supernatant were determined by ELISA.

IL-6 levels in the cell supernatant of A549 cells increased significantly after stimulated with IL1- β , the data was shown in Table 1 and Figure 1.

Image 2.



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