

ARG80503 Human IL1 beta ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG80503 Human IL1 beta ELISA Kit is an Enzyme immunoassay kit for in vitro quantitative measurement of human IL1 beta in serum and plasma (EDTA).
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	IL1 beta
Conjugation	HRP
Sensitivity	0.35 pg/ml
Sample Type	Serum and plasma (EDTA).
Standard Range	24 - 1166 pg/ml
Sample Volume	200 µl
Alternate Names	Interleukin-1 beta; IL1-BETA; IL-1; IL-1 beta; Catabolin; IL1F2

Application Instructions

Assay Time	2 h, 15 min (RT/shaker)
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	IL1B
Gene Full Name	interleukin 1, beta
Background	IL1 beta protein is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain hypersensitivity. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. [provided by RefSeq, Jul 2008]
Function	IL1 beta is a potent proinflammatory cytokine. Initially discovered as the major endogenous pyrogen, induces prostaglandin synthesis, neutrophil influx and activation, T-cell activation and cytokine production, B-cell activation and antibody production, and fibroblast proliferation and collagen

production. Promotes Th17 differentiation of T-cells. Synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells (PubMed:10653850). [UniProt]

Highlight

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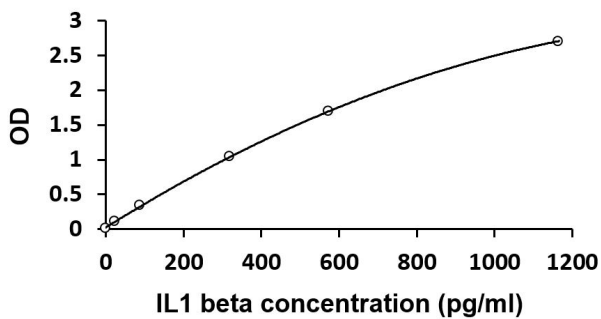
Research Area

Cell Biology and Cellular Response kit; Immune System kit; Metabolism kit

PTM

Activation of the IL1B precursor involves a CASP1-catalyzed proteolytic cleavage. Processing and secretion are temporarily associated.

Images



ARG80503 Human IL1 beta ELISA Kit standard curve image

ARG80503 Human IL1 beta ELISA Kit results of a typical standard.