

ARG82663 Guinea Pig IL1 beta ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG82663 Guinea Pig IL1 beta ELISA Kit is an Enzyme Immunoassay kit for the quantification of Guinea Pig IL1 beta in serum and plasma.
Tested Reactivity	Gpig
Tested Application	ELISA
Specificity	The following recombinant Guinea Pig proteins were tested and exhibited no cross-reactivity or interference: Adiponectin, ApoA1, BMP1, BMP2, BMP3, BMP4, BMP5, BMP7, CCL2, CCL4, CCL5, CRP, HGF, HSP27, IL1RA, IL1 alpha, IL1 RI, IL2, IL4, IL5, IL6, IL6R, IL8, IL10, IL12, IL13, IL15, IL17C, IL21, IL23, IFN beta, IFN gamma, PDGF, PLA2G7, prolactin, serpin E1, TGF beta 1, TGF beta 2, TGF beta 3, TLR1, TLR2, TL3, TLR9, TNF alpha, TNF RI, TNF RII, VEGF and VEGF R1.
Target Name	IL1 beta
Conjugation	HRP
Conjugation Note	Read at 450 nm.
Sensitivity	16 pg/ml
Sample Type	Serum and plasma.
Standard Range	31 - 2000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 7% Inter-Assay CV: 10%
Alternate Names	Interleukin-1 beta; IL1-BETA; IL-1; IL-1 beta; Catabolin; IL1F2

Application Instructions

Assay Time	~ 3 hours
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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.

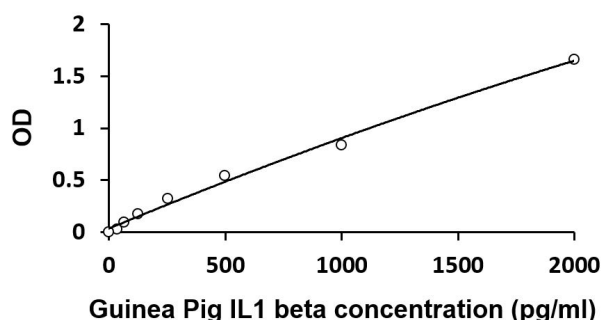
Bioinformation

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	Related products: IL1 beta antibodies ; IL1 beta ELISA Kits ; IL1 beta Duos / Panels ; IL1 beta recombinant proteins ; Related news: HMGB1 in inflammation Inflammatory Cytokines Exploring Antiviral Immune Response RIP1 activation and pathogenesis of NASH New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Activation of the IL1B precursor involves a CASP1-catalyzed proteolytic cleavage. Processing and secretion are temporarily associated. [UniProt]
Cellular Localization	Cytoplasm, cytosol. Lysosome. Secreted, exosome. [UniProt]

Images



ARG82663 Guinea Pig IL1 beta ELISA Kit standard curve image

ARG82663 Guinea Pig IL1 beta ELISA Kit results of a typical standard run with optical density reading at 450 nm.