

ARG82837 Chicken IL1 beta ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG82837 Chicken IL1 beta ELISA Kit is an Enzyme Immunoassay kit for the quantification of Chicken IL1 beta in serum, plasma and cell culture supernatants.
Tested Reactivity	Chk
Tested Application	ELISA
Specificity	The following recombinant Chicken proteins were tested and exhibited no cross-reactivity or interference: BMP1, BMP2, BMP3, BMP4, IL2, IL4, IL5, IL6, IL8, IL10, IL12, IL15, IFN gamma, TGF beta 1, TGF beta 2, TGF beta 3, TLR1, TLR2, TLR3 and TNF alpha.
Target Name	IL1 beta
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	31 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	62 - 4000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 7.0% Inter-Assay CV: 10.0%
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.

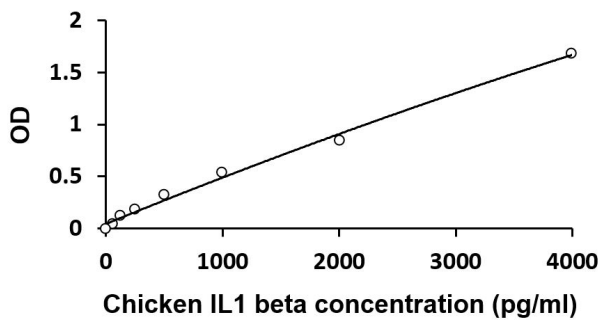
Bioinformation

Gene Symbol	IL1B
Gene Full Name	interleukin 1, beta
Background	The protein encoded by this gene 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	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]
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. Secreted. Note=The precursor is cytosolic. In response to inflammasome-activating signals, such as ATP for NLRP3 inflammasome or bacterial flagellin for NLRC4 inflammasome, cleaved and secreted. IL1B lacks any known signal sequence and the pathway(s) of its secretion is(are) not yet fully understood (PubMed:24201029). On the basis of experimental results, several unconventional secretion mechanisms have been proposed. [UniProt]

Images



ARG82837 Chicken IL1 beta ELISA Kit standard curve image

ARG82837 Chicken IL1 beta ELISA Kit results of a typical standard run with optical density reading at 450 nm.