

ARG82644 Canine IL1 alpha ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG82644 Canine IL1 alpha ELISA Kit is an Enzyme Immunoassay kit for the quantification of Canine IL1 alpha in serum, plasma, cell lysate and tissue lysate.
Tested Reactivity	Dog
Tested Application	ELISA
Specificity	The following recombinant canine proteins were tested and exhibited no cross-reactivity or interference: ApoA1, BMP1, BMP2, BMP3, BMP4, CCL4 / MIP1 beta, CRP, HSP27, IL1 beta, IL1RA, IL2, IL4, IL5, IL8, IL10, IL12, IL15, IL17C, IL21, IL23, IL2R, IFN gamma, PDGF, PLA2G7, prolactin, TGF beta 1, TGF beta 2, TGF beta 3, TLR1, TLR2, TLR3, TNF alpha, TNF RI, TNF RII and VEGF.
Target Name	IL1 alpha
Conjugation	HRP
Conjugation Note	Read at 450 nm.
Sensitivity	1.3 pg/ml
Sample Type	Serum, plasma, cell lysate and tissue lysate.
Standard Range	2.5 - 160 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 6% Inter-Assay CV: 9%
Alternate Names	IL-1 alpha; Interleukin-1 alpha; IL1; IL1F1; Hematopoietin-1; IL1-ALPHA; IL-1A

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	IL1A
Gene Full Name	interleukin 1, alpha
Background	The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and

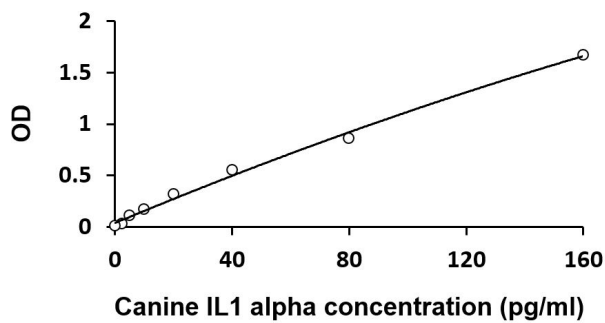
hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease. [provided by RefSeq, Jul 2008]

Function Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells. [UniProt]

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Cellular Localization Secreted. Note=The lack of a specific hydrophobic segment in the precursor sequence suggests that IL-1 is released by damaged cells or is secreted by a mechanism differing from that used for other secretory proteins. [UniProt]

Images



ARG82644 Canine IL1 alpha ELISA Kit standard curve image

ARG82644 Canine IL1 alpha ELISA Kit results of a typical standard run with optical density reading at 450 nm.