

ARG83008
Rat IL18 ELISA KitPackage: 96 wells
Store at: 4°C

Summary

Product Description	ARG83008 Rat IL18 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat IL18 in serum, plasma (heparin), ascites, urine and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Target Name	IL18
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (heparin), ascites, urine and cell culture supernatants.
Standard Range	31.25 - 2000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: less than 10% Inter-Assay CV: less than 10%
Alternate Names	IL18, Interleukin 18, IL1F4, IL 18, IGIF, IL 1g, Interleukin 18 (Interferon-Gamma-Inducing Factor), IFN Gamma Inducing Factor, Interleukin 1 Gamma, Interleukin 18, Iboctadekin, IL 1 Gamma, Interferon Gamma Inducing Factor, Interferon Gamma Inducing Factor

Application Instructions

Assay Time	~ 4 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.

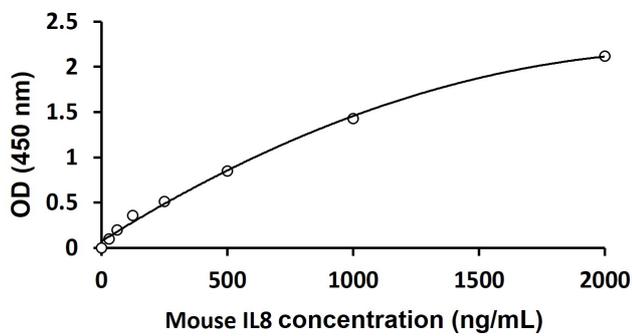
Bioinformation

Gene Symbol	IL18
Gene Full Name	Interleukin 18
Background	The protein encoded by this gene is a proinflammatory cytokine of the IL-1 family that is constitutively found as a precursor within the cytoplasm of a variety of cells including macrophages and keratinocytes. The inactive IL-18 precursor is processed to its active form by caspase-1, and is capable of stimulating interferon gamma production, and of regulating both T helper (Th) 1 and Th2 responses. This cytokine has been implicated in the injury of different organs, and in potentially fatal conditions

characterized by a cytokine storm. In humans, IL-18 gene is located on chromosome 11. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Aug 2020]

Function	Pro-inflammatory cytokine primarily involved in epithelial barrier repair, polarized T-helper 1 (Th1) cell and natural killer (NK) cell immune responses. Upon binding to IL18R1 and IL18RAP, forms a signaling ternary complex which activates NF-kappa-B, triggering synthesis of inflammatory mediators. [UniProt]
Highlight	Related products: IL18 antibodies ; IL18 ELISA Kits ; IL18 recombinant proteins ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	The pro-IL-18 precursor is processed by CASP1 or CASP4 to yield the active form. [UniProt]
Cellular Localization	Cytoplasm, Secreted. [UniProt]

Images



ARG83008 Rat IL18 ELISA Kit standard curve image

ARG83008 Rat IL18 ELISA Kit results of standard run with optical density reading at 450 nm