

Datasheet for KOA0362**Rat IL-18 ELISA Kit****Overview**

Description:	Rat IL-18 AccuSignal ELISA Kit - KOA0362
Item No.:	KOA0362
Size:	1 Kit
Applications:	ELISA
Reactivity:	Rat
Range:	15.6 pg/ml - 1000 pg/ml

Product Details

Background:	Interleukin(IL)-18, also called Interferon-gamma-inducing factor(IGIF), augments natural killer (NK) activity in spleen cells. The gene encodes a precursor protein of 192 amino acids and a mature protein of 157 amino acids. ¹ IL-18 is a recently discovered cytokine that modulates both T helper type 1(Th1) and Th2 responses. ² IL-18 is a potent proinflammatory cytokine with potential atherogenic properties. It is highly expressed in the atherosclerotic plaques compared with control normal arteries and is localized mainly in plaque macrophages. ³
Synonyms:	Ibactadekin, IFN gamma inducing factor, IFN-gamma-inducing factor, IGIF, IL 1 gamma, IL 18, IL 1g, IL-1 gamma, IL-18, IL1 gamma, IL18, IL18 protein, IL18_HUMAN, IL1F4, IL1g, IL1gamma, IL1F4, Interferon gamma inducing factor, Interferon gamma-inducing factor, Interleukin 1 gamma, Interleukin 18, Interleukin-1 gamma, Interleukin-18, Interleukin18, MGC12320
Detection Kit Type:	ELISA Kit
Detection Range:	15.6 pg/ml - 1000 pg/ml
Sensitivity:	<1 pg/ml

Target Details

Gene Name:	IL18
Reactivity:	Rat
Immunogen:	Expression system for standard: E.coli; Immunogen sequence: H37-S194
Purity/Specificity:	Natural and recombinant rat IL-18. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:	• UniProtKB - P97636 • NCBI - NP_062038.1 • GeneID - 29197 • KOA0362 Protocol
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Application Details

Tested Applications:	ELISA
Application Note:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml, 15.6pg/ml rat IL-18 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of rat cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each rat IL-18 standard solution and each sample be measured in duplicate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	DOE: 2-8° C - 04/22/18 -20° C - 10/23/18

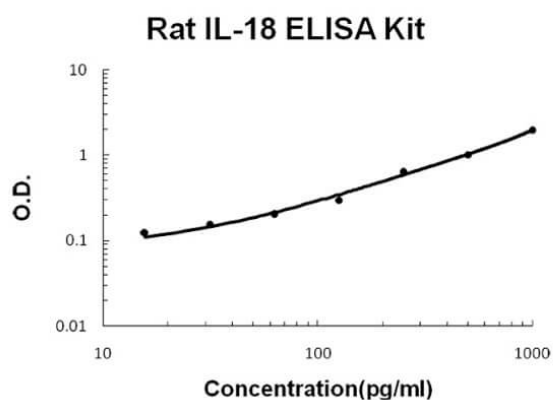
Formulation

Concentration:	1 Kit
Anticoagulant:	Heparin Sodium

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.
Expiration:	See kit insert for complete instructions.

Images



ELISA

Rat IL-18 AccuSignal ELISA Kit standard curve. Assay Range: 15.6pg/ml-1000pg/ml. Sensitivity: <1pg/ml.

References

- Zhou M et al. Spontaneous hypothermia ameliorated inflammation and neurologic deficit in rat cardiac arrest models following resuscitation. *Mol Med Rep.* (2018)

Disclaimer

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