

Human IL18/IL-18/Interleukin 18 ELISA Kit | IL18/IL-18 elisa kit

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CATALOG #
AAA258330

REACTIVITY
Human

PRODUCT SYNONYMS

IL18/IL-18/Interleukin 18; Human IL18/IL-18/Interleukin 18 ELISA Kit; IL-18 ELISA Kit; Human; interleukin 18; IGIF ELISA Kit; IL-1g ELISA Kit; IL1F4 ELISA Kit; Interleukin 18 ELISA Kit; IL18/IL-18 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human IL18/IL-18/Interleukin 18 concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	46.88-3000pg/mL
Sensitivity	22.88pg/mL
Conjugation	HRP
Interference	Preparations of the factors listed below at 50ng/mL in a mid-range recombinant human IL18 control were assayed for interference. No significant interference was observed.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

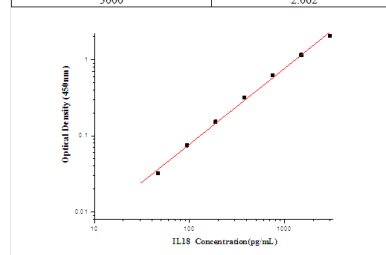
IMAGES

Recombinant human			
IFN- β	IFN- γ	IL-1 α	IL-1 β
IL-10	IL-11	IL-12	IL-13
IL-15	IL-16	IL-17a	IL-18 BPa
IL-18 R	IL-19		
Recombinant mouse			
IL18			

Application Data

This assay recognizes both recombinant and natural Human IL18. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
46.88	0.032
93.75	0.075
187.5	0.153
375	0.317
750	0.622
1500	1.151
3000	2.062



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for IL18/IL-18 elisa kit	This IL-18 ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human IL-18 protein in Serum. It contains recombinant Human IL-18, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Interleukin-18 (IL-18, also known as interferon-gamma inducing factor) is a proinflammatory cytokine that belongs to the IL-1 superfamily and is produced by macrophages and other cells. This cytokine can induce the IFN-gamma production of T cells. The combination of IL-18 and IL12 has been shown to inhibit IL4 dependent IgE and IgG1 production, and enhance IgG2a production of B cells. IL-18 binding protein (IL18BP) can specifically interact with this cytokine, and thus negatively regulate its biological activity. IL-18 is an IL-1-like cytokine that requires cleavage with caspase-1 to become active, was found to increase IgE production in a CD4+ T cell -, IL-4- and STAT6-dependent fashion. IL-18 and T cell receptor-mediated stimulation could induce naive CD4+ T cells to develop into IL-4-producing cells in vitro. Thus, caspase-1 and IL-18 may be critical in the regulation of IgE production in vivo, providing a potential therapeutic target for allergic disorders. IL-18 production in primary synovial cultures and purified synovial fibroblasts was, in turn, upregulated by TNF-alpha and IL-1beta, suggesting that monokine expression can feedback to promote Th1 cell development in the synovial membrane. Besides, synergistic combinations of IL-18, IL-12, and IL-15 may be of importance in sustaining both Th1 responses and monokine production in RA.
References	Dinarello CA. (1999) IL-18: A TH1-inducing, proinflammatory cytokine and new member of the IL-1 family. J Allergy Clin Immunol. 103: 11-24. Takeda K, et al.. (1998) Defective NK cell activity and Th1 response in IL-18-deficient mice. Immunity. 8(3): 383-90. Gracie JA, et al.. (1999) A proinflammatory role for IL-18 in rheumatoid arthritis. J Clin Invest. 104(10): 1393-401.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/il18-il-18-interleukin-18/258330>