

Human IL18R1 ELISA Kit | IL18R1 elisa kit

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CATALOG #
AAA258421

REACTIVITY
Human

PRODUCT SYNONYMS

IL18R1; Human IL18R1 ELISA Kit; IL-18Ralpha ELISA Kit; Human; interleukin 18 receptor 1; CD218a ELISA Kit; CDw218a ELISA Kit; IL-1Rrp ELISA Kit; IL18RA ELISA Kit; IL1RRP ELISA Kit; IL18R1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human IL18R1 concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	7.81-500pg/mL
Sensitivity	3.49pg/mL
Conjugation	HRP
Interference	Preparations of IL18 prepared at 5ng/mL in a mid-range recombinant human IL18R1 control was 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

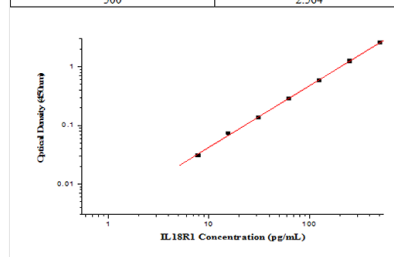
IMAGES

Recombinant human			
IL1R1	IL1R2	IL1R3	IL1R4
IL1R7	IL1R8	IL1R9	SIGIRR
IL1	IL2	IL4	IL6
IL8	IL10	IL33	TNF- α
PDGF	IFN- γ	VEGF	MP-1 β
TIMP1	TIMP2	GM-CSF	SCF
Recombinant mouse			
IL18R1			

Application Data

This assay recognizes both recombinant and natural Human IL18R1. The factors listed above were prepared at 10 or 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed. Preparations of IL18 prepared at 5ng/mL in a mid-range recombinant human IL18R1 control was assayed for interference. No significant interference was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
7.81	0.031
15.63	0.074
31.25	0.135
62.5	0.286
125	0.592
250	1.250
500	2.564



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 IL18R1 elisa kit	This IL-18Ralpha ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human IL-18Ralpha protein in Serum. It contains recombinant Human IL-18Ralpha, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Interleukin-18 receptor 1 (IL18R1) also known as CD218 antigen-like family member A, CDw218a, IL1 receptor-related protein, and CD218a, is an interleukin receptor of the immunoglobulin superfamily. IL18R1 is found expressed in the lung, leukocytes, spleen, liver, thymus, prostate, small intestine, colon, placenta, and heart, and is absent from the brain, skeletal muscle, pancreas, and kidney. A high level of expression is found in Hodgkin disease cell lines. This receptor is specifically bound to interleukin 18 (IL18) and is essential for IL18 mediated signal transduction. IL18R1 contains 3 Ig-like C2-type (immunoglobulin-like) domains and 1 TIR domain. It is a single-pass type I membrane protein. IFN-alpha and IL12 are reported to induce the expression of this receptor in NK and T cells. The increased expression of IL18R1 may contribute pathogenically to disease and is therefore a potential therapeutic target. The absence of a genetic association in the IL18R1 gene itself suggests regulation from other parts of the genome, or as part of the inflammatory cascade in multiple sclerosis without a prime genetic cause.
References	Nadif R, et al.. (2006) IL18 and IL18R1 polymorphisms, lung CT and fibrosis: A longitudinal study in coal miners. Eur Respir J. 28(6): 1100-5. Haralambieva IH, et al.. (2011) Common SNPs/haplotypes in IL18R1 and IL18 genes are associated with variations in hum oral immunity to smallpox vaccination in Caucasians and African Americans. J Infect Dis. 204(3): 433-41. Hulin-Curtis SL, et al.. (2012) Evaluation of IL18 and IL18R1 polymorphisms: genetic susceptibility to knee osteoarthritis. Int J Immunogenet. 39(2): 106-9.

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://www.aaabiotech.com/human-elisa-kits/il18r1/258421>