

Human IL-18 ELISA Kit | IL18 elisa kit

Human IL-18 PicoKine ELISA Kit

CATALOG #
AAA11545

REACTIVITY
Human

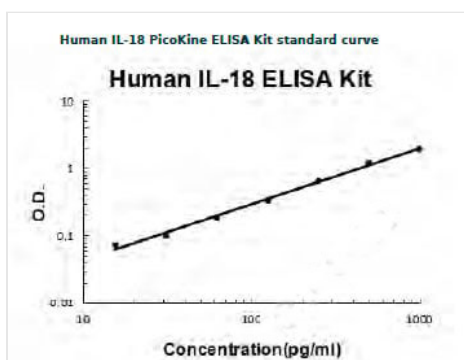
PRODUCT SYNONYMS

IL-18; Human IL-18 PicoKine ELISA Kit; Interleukin-18; interleukin 18; Iboctadekin; IFN gamma inducing factor; IFN-gamma-inducing factor; IGIF; IL 1 gamma; IL 18; IL 1g; IL-1 gamma; IL1 gamma; IL18; IL18 protein; IL18_HUMAN; IL1F4; IL1g; IL1gamma; ILIF4; Interferon gamma inducing factor; Interferon gamma-inducing factor; Interleukin 1 gamma; Interleukin 18; Interleukin-1 gamma; Interleukin18; MGC12320; IL18 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human IL18
Sequence Length	193
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, edta)
Detection Range	15.6 pg/ml - 1,000 pg/ml
Sensitivity	<1 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL18 elisa kit	Principle of the Assay: The Picokine™ Human IL18 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human IL18 with a 96-well strip plate that is pre-coated with antibody specific for IL18. The detection antibody is a biotinylated antibody specific for IL18. The capture antibody is monoclonal antibody from mouse and the detection antibody is monoclonal antibody from mouse. The kit contains recombinant Human IL18 with immunogen: Expression system for standard: E.coli; Immunogen sequence: Y33-D197. The kit is analytically validated with ready-to-use reagents. To measure Human IL18, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human IL18 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human IL18 in the sample. Background/Introduction: 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
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NCBI AND UNIPROT INFORMATION

NCBI GI #	3219817
NCBI GeneID	3606
UniProt Accession #	Q14116; O75599; Q6FGY3; Q6WWJ7
Molecular Weight	21,896 Da
NCBI Official Full Name	Interleukin-18
NCBI Official Synonym Full Names	interleukin 18
NCBI Official Symbol	IL18
NCBI Official Synonym Symbols	IGIF; IL-18; IL-1g; IL1F4
NCBI Protein Information	interleukin-18; IL-1 gamma; iboctadekin; interleukin-1 gamma; IFN-gamma-inducing factor; interleukin 18 (interferon-gamma-inducing factor)
UniProt Protein Name	Interleukin-18
UniProt Gene Name	IL18
UniProt Synonym Gene Names	IGIF; IL1F4; IL-18; IFN-gamma-inducing factor; IL-1 gamma
UniProt Entry Name	IL18_HUMAN

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/il18-human-elisa-kits/il-18/11545>