

Human IL-18 ELISA Kit | IL-18 elisa kit

IL-18 Human ELISA Kit

CATALOG # AAA58959	REACTIVITY Human	APPLICATIONS ELISA
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PRODUCT SYNONYMS

IL-18; IL-18 Human ELISA Kit; Human IL-18; IL-18 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Samples	Human serum, plasma, body fluids, tissue lysates or cell culture supernatants
Detection Range	15.6 pg/ml-1000 pg/ml
Sensitivity	< 1 pg/ml
Applicable Applications for IL-18 elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES

Typical Data & Standard Curve

Results of a typical standard run of a Human IL-18 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	Pg/ml	0	15.6	31.2	62.5	125	250	500	1000
Y	OD450	0.066	0.091	0.123	0.189	0.324	0.547	1.115	2.068

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-18 elisa kit

Background: Interleukin-18 (IL18), also known as interferon-gamma inducing factor, in humans is encoded by the IL18 gene, this gene contains 6 exons, and maps to 11q22.2-q22.3. It is a cytokine that belongs to the IL-1 superfamily and is produced by macrophages and other cells. It works by binding to the interleukin-18 receptor, and together with IL-12 it induces cell-mediated immunity following infection with microbial products like lipopolysaccharide (LPS). IL-18 has been implicated as an inflammatory mediator of Hashimoto's thyroiditis, the most common cause of autoimmune hypothyroidism. IL-18 is also able to induce severe inflammatory reactions, which suggests its role in certain inflammatory disorders.

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti- IL-18 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- IL-18 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the IL-18 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of IL-18 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	27806575
NCBI GeneID	281249
NCBI Accession #	NP_776516.1
NCBI GenBank Nucleotide #	NM_174091.2
UniProt Accession #	Q9TU73; Q3SZF6; A9QWR6
Molecular Weight	22,347 Da
NCBI Official Full Name	interleukin-18
NCBI Official Synonym Full Names	interleukin 18 (interferon-gamma-inducing factor)<
NCBI Official Symbol	IL18
NCBI Protein Information	interleukin-18; IL-18; IL-1 gamma; interleukin-1 gamma; IFN-gamma-inducing factor; interferon gamma-inducing factor; interferon-gamma-inducing factor
UniProt Protein Name	Interleukin-18
UniProt Gene Name	IL18
UniProt Synonym Gene Names	IGIF; IL-18; IFN-gamma-inducing factor; IL-1 gamma
UniProt Entry Name	IL18_BOVIN

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/il-18/58959>