

Human IL-6 ELISA Kit | IL6 elisa kit

Human IL-6 PicoKine ELISA Kit

CATALOG #
AAA11547

REACTIVITY
Human

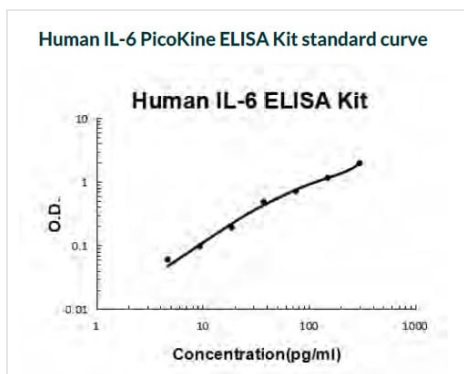
PRODUCT SYNONYMS

IL-6; Human IL-6 PicoKine ELISA Kit; Interleukin-6; interleukin 6; B cell differentiation factor; B cell stimulatory factor 2; B-cell stimulatory factor 2; BSF 2; BSF-2; BSF2; CDF; CTL differentiation factor; Cytotoxic T cell differentiation factor; Hepatocyte stimulating fact; HGF; HPGF; HSF; Hybridoma growth factor; Hybridoma plasmacytoma growth factor; IFN-beta-2; IFNB2; IL 6; IL6; IL6 protein; IL6_HUMAN; Interferon beta 2; Interferon beta-2; Interleukin 6; Interleukin 6 (interferon beta 2); Interleukin BSF 2; Interleukin6; IL6 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human IL6
Sequence Length	198
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA, citrate)
Detection Range	4.69 pg/ml - 300 pg/ml
Sensitivity	<0.3 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 IL6 elisa kit	Background: The human interferon-beta 2 gene (IFNB2) product is identical to that for the B-cell stimulation factor-2 (BSF-2), the hybridoma growth factor (HGF) ("interleukin-6"), and the hepatocyte stimulating factor (HSF). Proteins derived from this gene mediate the plasma protein response to tissue injury (acute-phase response) and regulate the growth and differentiation of both B and T cells. Interleukin-6 (IL6) has come to be regarded as a potential osteoporotic factor because it has stimulatory effects on cells of the osteoclast lineage, and, thus, may play a role in the pathogenesis of bone loss associated with estrogen deficiency. IL-6 has many roles essential to the regulation of the immune response, hematopoiesis, and bone resorption. It is involved not only in the hepatic acute phase response but also in adipose tissue metabolism, lipoprotein lipase activity, and hepatic triglyceride secretion. Overproduction of IL-6, a proinflammatory cytokine, is associated with a spectrum of age-related conditions including cardiovascular disease, osteoporosis, arthritis, type 2 diabetes, certain cancers, periodontal disease, frailty, and functional decline. BSF-2 is a novel interleukin consisting of 184 amino acids. The standard product used in this kit is recombinant human IL-6, consisting of 184 amino acids with the molecular mass of 20.3kDa. Principle of the Assay: The Picokine™ Human IL6 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human IL6 with a 96-well strip plate that is pre-coated with antibody specific for IL6. The detection antibody is a biotinylated antibody specific for IL6. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit includes Human IL6 protein as standards. To measure Human IL6, 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 IL6 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 IL6 in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GeneID	3569
UniProt Accession #	B4DVM1; P05231
Molecular Weight	21,954 Da
NCBI Official Synonym Full Names	interleukin 6
NCBI Official Symbol	IL6
NCBI Official Synonym Symbols	HGF; HSF; BSF2; IL-6; IFNB2
NCBI Protein Information	interleukin-6; CDF; BSF-2; IFN-beta-2; interferon beta-2; interleukin BSF-2; interferon, beta 2; hybridoma growth factor; CTL differentiation factor; B-cell stimulatory factor 2; B-cell differentiation factor
UniProt Protein Name	cDNA FLJ61423, highly similar to Interleukin-6
UniProt Entry Name	B4DVM1_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/il6-human-elisa-kits/il-6/11547>