

IL-6 elisa kit

Human IL-6 HS ELISA Kit

CATALOG #
AAA58616

REACTIVITY
Human. No cross reactivity with other human cytokines. No interference with soluble receptor gp80.

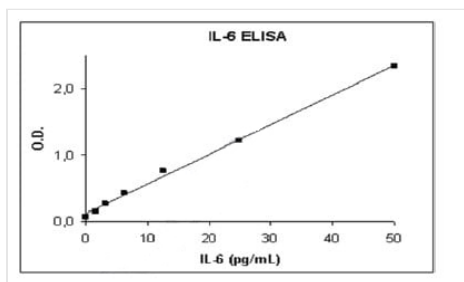
PRODUCT SYNONYMS

IL-6; Human IL-6 HS ELISA Kit; IL-6 HS; IL-6 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human. No cross reactivity with other human cytokines. No interference with soluble receptor gp80.
Specificity	The assay recognizes both natural and recombinant human IL-6. To define the specificity of this ELISA several proteins were tested for cross reactivity. There was no cross reactivity observed for any protein tested (IL-1alpha, IL-1beta, IL-10, IL-12, IFNgamma, IL-4, TNFalpha, IL-8 and IL-13).
Sequence Length	209
Samples	Supernatants, buffered solutions or serum and plasma samples and other body fluids. This assay will recognise both natural and recombinant human IL-6.
Assay Type	Sandwich
Sensitivity	The sensitivity, minimum detectable dose of IL-6 using this IL-6 HS ELISA kit was found to be less than 0.81pg/ml. This was determined by adding 3 standard deviations to the mean OD obtained when the zero standard was assayed 40 times.
Intra-assay Precision	Reproducibility within the assay was evaluated in three independent experiments. Each assay was carried out with 6 replicates (3 duplicates) of 3 spiked human pooled serum samples and 2 supernatants containing different concentrations of IL-6. Data below shows the mean IL-6 concentration and the coefficient of variation for each sample. The overall intra-assay coefficient of variation has been calculated to be 4.4%.
Inter-assay Precision	Assay to assay reproducibility within one laboratory was evaluated in three independent experiments by two analysts. Each assay was carried out with 6 replicates of 3 spiked serum human pooled serum samples and 2 supernatants containing different concentrations of IL-6. The calculated overall coefficient of variation was 9.1%

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-6 elisa kit	Principle of the Assay: A capture Antibody highly specific for IL-6 has been coated to the wells of the microtitre strip plate provided during manufacture. Binding of IL-6 samples and known standards to the capture antibodies and subsequent binding of the biotinylated anti-IL-6 secondary antibody to the analyte is completed during the same incubation period. Any excess unbound analyte and secondary antibody is removed. The HRP conjugate solution is then added to every well including the zero wells, following incubation excess conjugate is removed by careful washing. A chromogen substrate is added to the wells resulting in the progressive development of a blue coloured complex with the conjugate. The colour development is then stopped by the addition of acid turning the resultant final product yellow. The intensity of the produced coloured complex is directly proportional to the concentration of IL-6 present in the samples and standards. The absorbance of the colour complex is then measured and the generated OD values for each standard are plotted against expected concentration forming a standard curve. This standard curve can then be used to accurately determine the concentration of IL-6 in any sample tested.
Product Categories/Family for IL-6 elisa kit	Human ELISA Kit
References	Can aerobic exercise alleviate flu-like symptoms following interferon beta-1a injections in patients with multiple sclerosis? . Martin Langeskov-Christensena, Tue Kjølhedea, Egon Stenagerb, Henrik Boye Jensenb, Ulrik Dalgas (2016)

NCBI AND UNIPROT INFORMATION

NCBI GI #	1161162
Molecular Weight	23,483 Da
NCBI Official Full Name	interleukin 6, partial
UniProt Protein Name	Interleukin-6
UniProt Gene Name	IL6
UniProt Synonym Gene Names	IL-6
UniProt Entry Name	IL6_PHOVI

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/il-6/58616>