

Human IL6/IL-6 ELISA Kit | IL6/IL-6 elisa kit

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CATALOG #
AAA258360

REACTIVITY
Human

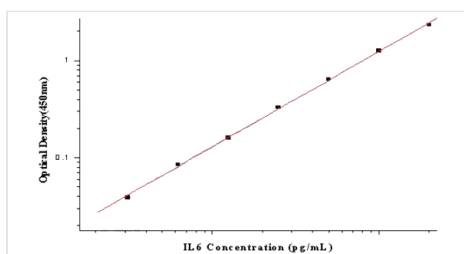
PRODUCT SYNONYMS

IL6/IL-6; Human IL6/IL-6 ELISA Kit; IL-6 ELISA Kit; Human; interleukin 6; BSF2 ELISA Kit; HGF ELISA Kit; HSF ELISA Kit; IFNB2 ELISA Kit; Interleukin-6 ELISA Kit; IL6/IL-6 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The minimum detectable dose (MDD) of Human IL6 / IL-6 is typically less than 0.47 pg/mL. The MDD was determined by adding three standard deviations to the mean optical density value of twenty zero standard replicates and calculating the corresponding concentration.
Assay Type	Quantitative Sandwich
Samples	Serum and cell culture supernates
Sensitivity	< 0.47 pg/mL
Intra-assay Precision	Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.
Inter-assay Precision	Three samples of known concentration were tested in five separate assays to assess inter-assay precision.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL6/IL-6 elisa kit	Background: Interleukin-6 (IL-6) is a multifunctional α-helical cytokine that regulates cell growth and differentiation of various tissues, which is known particularly for its role in the immune response and acute phase reactions. IL-6 protein is secreted by a variety of cell types including T cells and macrophages as phosphorylated and variably glycosylated molecule. It exerts actions through the its heterodimeric receptor composed of IL-6R that lacks the tyrosine/kinase domain and binds IL-6 with low affinity, and ubiquitously expressed glycoprotein 13 (gp13) that binds the IL-6. IL-6R complex with high affinity and thus transduces signals. IL-6 is also involved in hematopoiesis, bone metabolism, and cancer progression, and has been defined an essential role in directing transition from innate to acquired immunity. Principle of the Assay: The principle of this ELISA kit is based on the solid phase sandwich enzyme immunoassay technique. A monoclonal antibody specific for Human IL6 / IL-6 has been pre-coated onto well plate strips. Standards and samples are added to the wells and Human IL6 / IL-6 present in the sample is bound by the immobilized antibody. After incubation the wells are washed and a horseradish peroxidase conjugated anti-Human IL6 / IL-6 antibody is added, producing an antibody-antigen-antibody "sandwich complex". Following a wash to remove any unbound antibody a TMB substrate solution is loaded and color develops in proportion to the amount of Human IL6 / IL-6 bound. The reaction is stopped by the addition of a stop solution and the intensity of the color can be measured at 450 nm (See schematics below). Intended Uses: For the quantitative determination of Human IL6 / IL-6 concentration in serum and cell culture supernates.
References	Heinrich PC. et al. (2003). Principles of interleukin-6-type cytokine signalling and its regulation. Biochem J. 374: 1-20. Rose-John S, et al. (2007) The IL-6/sIL-6R complex as a novel target for therapeutic approaches. Expert Opin Ther Targets. 11(5): 613-24. Dinh W, et al. (2009) Elevated plasma levels of TNF-alpha and interleukin-6 in patients with diastolic dysfunction and glucose metabolism disorders. Cardiovasc Diabetol. 8:58.

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/il6-il-6/258360>