

Interleukin-16 ELISA Kit | IL-16 elisa kit

Interleukin-16 (IL-16)

CATALOG #
AAA77857

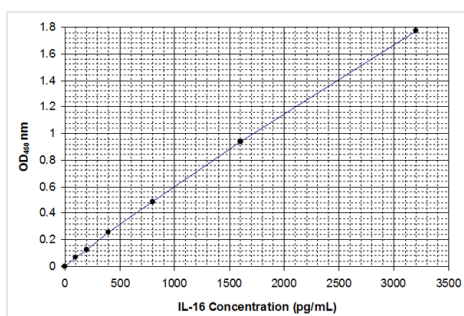
PRODUCT SYNONYMS

Interleukin-16; Interleukin-16 (IL-16); IL-16 elisa kit

PRODUCT SPECIFICATIONS

Specificity	This ELISA recognizes both natural and recombinant human IL-16. This kit exhibits no detectable cross-reactivity with human; IL-1beta, IL-7, IL-8, IFN-gamma, EGF, EPO, GM-CSF, MCAF, MCP-3, M-CSF, SAA, TGF-beta, TNF-alpha.
Sequence Length	130
Samples	Serum, plasma, Cell Culture Supernatant, and other biological fluids
Assay Type	Sandwich
Sensitivity	The minimum detectable dose of IL-16 was determined by adding two standard deviations to the mean optical density value of 20 zero standard replicates and calculating the corresponding concentration from the standard curve. The minimum detectable dose of human IL-16 using a standard curve generated with Calibrator Diluent I is 20 pg/mL and using Calibrator Diluent II is 18 pg/mL.
Intra-assay Precision	To determine within-run precision, three different samples of known concentration were assayed by replicates of twenty in 1 assay.
Inter-assay Precision	To determine between-run precision, three different samples of known concentration were assayed by replicates on 12 different assays.
Intended Uses	This Human Interleukin-16 (IL-16) ELISA Kit is to be used for the in vitro quantitative determination of human IL-16 concentrations in serum, plasma, cell culture supernatant, and other biological fluids. This kit is intended FOR LABORATORY RESEARCH PURPOSES ONLY and is not for use in therapeutic procedures.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-16 elisa kit	Principle of the assay: This IL-16 enzyme-linked immunosorbent assay (ELISA) applies a technique called a quantitative sandwich immunoassay. The microtiter plate provided in this kit has been pre-coated with a monoclonal antibody specific for IL-16. Standards or samples are then added to the appropriate microtiter plate wells and incubated. IL-16, if present, will bind and become immobilized by the antibody pre-coated on the wells. The microtiter plate wells are thoroughly washed to remove any unbound IL-16 and other components of sample. In order to quantitatively determine the amount of IL-16 present in the sample, a standardized preparation of horseradish peroxidase (HRP)-conjugated monoclonal antibody specific for IL-16 is added to each well to "sandwich" the IL-16 immobilized during the first incubation. The microtiter plate then undergoes a second incubation. The wells are thoroughly washed to remove all unbound HRP-conjugated antibodies and a TMB (3,3',5,5'-tetramethyl-benzidine) substrate solution is added to each well. The enzyme (HRP) and substrate solution are allowed to react over a short incubation period. Only those wells that contain IL-16 and enzyme-substrate reaction will exhibit a change in colour. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the colour change measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. In order to measure the concentration of IL-16 in the samples, this kit includes two calibration diluents (Calibrator Diluent I for serum/plasma testing and Calibrator Diluent II for cell culture supernatant testing). According to the testing system, the provided standard is diluted (2-fold) with the appropriate Calibrator Diluent and assayed at the same time as the samples. This allows the operator to produce a standard curve of Optical Density (O.D) versus IL-16 (pg/mL). The concentration of IL-16 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for IL-16 elisa kit	ELISA Kits for Human Cytokines and Receptors

NCBI AND UNIPROT INFORMATION

NCBI GI #	2996198
Molecular Weight	59,345 Da
NCBI Official Full Name	interleukin-16
UniProt Protein Name	Pro-interleukin-16
UniProt Gene Name	IL16
UniProt Entry Name	IL16_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://www.aaabiotech.com/il-16-elisa-kits/interleukin-16/77857>