

IL-1 beta elisa kit

Human IL-1 beta ELISA Kit

CATALOG #
AAA58604

REACTIVITY
Human. No cross reactivity with other human cytokines.

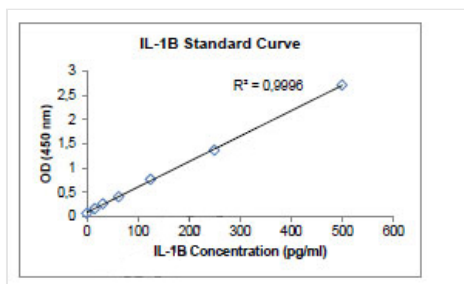
PRODUCT SYNONYMS

IL-1 beta; Human IL-1 beta ELISA Kit; IL-1 b; IL-1 beta elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human. No cross reactivity with other human cytokines.
Specificity	The assay recognizes both natural and recombinant human IL-1beta. 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-2, IL-10, IL-12, IL-17A, IL-23, IFNgamma, Gp130, IL-33, TNFalpha).
Sequence Length	269
Samples	Serum and plasma samples
Assay Type	Quantitative Sandwich
Sensitivity	6.5 pg/ml.
Intra-assay Precision	Reproducibility within the assay was evaluated in three independent experiments. Each assay was carried out with 6 replicates (3 duplicates) in 2 human pooled serum, 2 in RPMI and 2 in standard diluent with samples containing different concentrations of IL-1beta. 2 standard curves were run on each plate. The overall intra-assay coefficient of variation has been calculated to be 4.5%
Inter-assay Precision	Assay to assay reproducibility within one laboratory was evaluated in three independent experiments by two technicians. Each assay was carried out with 6 replicates (3 duplicates) in 2 human pooled serum, 2 in RPMI and 2 in standard diluent with samples containing different concentrations of IL-1beta. 2 standard curves were run on each plate. The calculated overall coefficient of variation was 8.7%.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IL-1 beta elisa kit	Intended Uses: IL-1beta ELISA kit is a solid phase sandwich ELISA for the in-vitro qualitative and quantitative determination of IL-1beta in supernatants, buffered solutions or serum and plasma samples. This assay will recognise both natural and recombinant human IL-1beta. Principle of the Assay: A capture Antibody highly specific for IL-1beta has been coated to the wells of the microtiter strip plate provided during manufacture. Binding of IL-1beta samples and known standards to the capture antibodies and subsequent binding of the biotinylated anti IL-1beta 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-1beta 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-1beta in any sample tested.
Product Categories/Family for IL-1 beta elisa kit	Human ELISA Kit
References	Beyth S. et al., Blood, 2005; 105(5): 2214 - 2219 Buenestado, A. et al., J Parenter Enteral Nutr.,2006;30(4):286-96 Cunin, P. et al., J. Immunol.,2011;186(7): 4175-4182.

NCBI AND UNIPROT INFORMATION

NCBI GI #	10835145
NCBI GeneID	3553
NCBI Accession #	NP_000567.1
NCBI GenBank Nucleotide #	NM_000576.2
Molecular Weight	30,748 Da
NCBI Official Full Name	interleukin-1 beta proprotein
NCBI Official Synonym Full Names	interleukin 1, beta
NCBI Official Symbol	IL1B
NCBI Official Synonym Symbols	IL-1; IL1F2; IL1-BETA
NCBI Protein Information	interleukin-1 beta
UniProt Protein Name	Interleukin-1 beta
UniProt Gene Name	IL1B
UniProt Synonym Gene Names	IL1F2; IL-1 beta
UniProt Entry Name	IL1B_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.