

Human IL-1 alpha ELISA Kit | IL1A elisa kit

Human IL-1 alpha PicoKine ELISA Kit

CATALOG #
AAA11565

REACTIVITY
Human

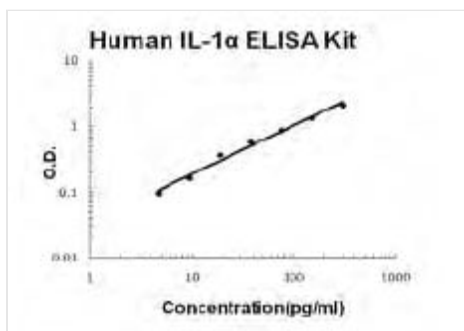
PRODUCT SYNONYMS

IL-1 alpha; Human IL-1 alpha PicoKine ELISA Kit; Interleukin-1 alpha; interleukin 1; alpha; Hematopoietin 1; IL 1 alpha; Il 1a; IL1; IL1 ALPHA; IL1A; IL1F1; Ilia; Interleukin 1 alpha; Interleukin 1 alpha precursor; Interleukin1 alpha; OTTHUMP00000203692; OTTMUSP00000016430; Preinterleukin 1; Pro interleukin 1; Pro interleukin 1 alpha; Prointerleukin 1; RP23-160G19.8; IL1A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human IL1A
Sequence Length	271
Samples	Cell culture supernates, serum and plasma(heparin, edta, citrate)
Detection Range	4.7pg/ml-300pg/ml
Sensitivity	<0.5pg/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 interassay 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 IL1A elisa kit

Principle of the Assay: The Picokine™ Human IL1A Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Human IL1A with a 96-well strip plate that is pre-coated with antibody specific for IL1A. The detection antibody is a biotinylated antibody specific for IL1A. The capture antibody is monoclonal antibody from mouse, the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human IL1A with immunogen: Expression system for standard: E.coli, Immunogen sequence: S113-A271. The kit is analytically validated with ready to use reagents. To measure Human IL1A, 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 substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly proportional to Human IL1A in the sample. Read the density 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 IL1A in the sample.

Background/Introduction: Interleukin-1 alpha(IL-1 alpha) and interleukin-1 beta(IL-1 beta) are two biochemically distinct, but distantly related, polypeptidic cytokines that play a key role in inflammation, immunologic reactions, and tissue repair. IL-1 alpha has been implicated in the pathogenesis of infectious, autoimmune and inflammatory diseases. Recently, it has been shown that IL-1 alpha is identical to hematopoietin 1, which is described as a hematopoietic growth factor acting on early progenitor cells in synergy with other hematopoietic growth factors. The human interleukin 1 alpha gene is assigned to chromosome 2. Genetic polymorphisms at interleukin(IL)-1alpha and IL-1beta have been recently suggested to be associated with severity of adult periodontitis. The murine IL-1 alpha and IL-1 beta genes encode structurally and evolutionarily related cytokines that exert a regulatory role in numerous physiological processes including hemopoiesis. The standard product used in this kit is recombinant human IL-1alpha with the molecular mass of 18kDa.

NCBI AND UNIPROT INFORMATION

NCBI GI #	124297
NCBI GeneID	3552
UniProt Accession #	P01583; Q53QF9; Q7RU02
Molecular Weight	30,607 Da
NCBI Official Full Name	Interleukin-1 alpha
NCBI Official Synonym Full Names	interleukin 1, alpha
NCBI Official Symbol	IL1A
NCBI Official Synonym Symbols	IL1; IL-1A; IL1F1; IL1-ALPHA
NCBI Protein Information	interleukin-1 alpha; IL-1 alpha; hematopoietin-1; preinterleukin 1 alpha; pro-interleukin-1-alpha
UniProt Protein Name	Interleukin-1 alpha
UniProt Gene Name	IL1A
UniProt Synonym Gene Names	IL1F1; IL-1 alpha
UniProt Entry Name	IL1A_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/il1a-human-elisa-kits/il-1-alpha/11565>