

Human IL-1 beta ELISA Kit | IL1B elisa kit

Human IL-1 beta PicoKine ELISA Kit

CATALOG #
AAA11555

REACTIVITY
Human

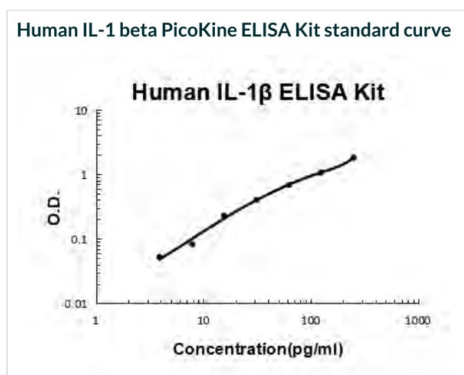
PRODUCT SYNONYMS

IL-1 beta; Human IL-1 beta PicoKine ELISA Kit; Interleukin-1 beta; interleukin 1; beta; Catabolin; Hematopoietin 1; IFN beta inducing factor; IL 1; IL 1 beta; IL 1B; IL1; IL1 BETA; IL1B; IL1B_HUMAN; IL1F2; Interleukin 1 beta; Interleukin 1 beta precursor; LAF; OAF; Osteoclast activating factor; Preinterleukin beta; Pro interleukin 1 beta; IL1B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human IL1B
Sequence Length	269
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA, citrate)
Detection Range	3.9 pg/ml - 250 pg/ml
Sensitivity	<0.15 pg/ml
Intra-assay Precision	Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Three samples of known concentration were tested in separate assays to assess inter-assay 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 IL1B elisa kit	Background: Interleukin-1beta (IL-1beta) is a potent stimulator of bone resorption whose gene is mapped to 2q14, and has been implicated in the pathogenesis of high bone turnover and osteoporosis. IL-1beta, a prominent microglia-derived cytokine, caused oligodendrocyte death in coculture with astrocytes and microglia, but not in pure culture of oligodendrocytes alone. It also can cause nuclear export of a specific NCOR corepressor complex, resulting in derepression of a specific subset of nuclear factor-kappa-B (NFKB)-regulated genes. Furthermore, Microenvironmental IL-1beta and, to a lesser extent, IL-1alpha are required for in vivo angiogenesis and invasiveness of different tumor cells. Additional, the cooperation of IL-1beta and PDGFB induces contractile-to-synthetic phenotype modulation of human aortic smooth muscle cells in culture. Moreover, the association with disease may be explained by the biologic properties of IL-1beta, which is an important proinflammatory cytokine and a powerful inhibitor of gastric acid secretion. Principle of the Assay: The Picokine™ Human IL1B Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human IL1B with a 96-well strip plate that is pre-coated with antibody specific for IL1B. The detection antibody is a biotinylated antibody specific for IL1B. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human IL1B with immunogen: Expression system for standard: E.coli; Immunogen sequence: A117-S269. The kit is analytically validated with ready-to-use reagents. To measure Human IL1B, 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 an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human IL1B in the sample. Read the absorbance 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 IL1B in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	62906858
NCBI GeneID	3553
UniProt Accession #	P01584; Q53X59; Q53XX2; Q7M4S7; Q7RU01; Q96HE5; Q9UCT6
Molecular Weight	30,748 Da
NCBI Official Full Name	Interleukin-1 beta
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; IL-1 beta; catabolin; preinterleukin 1 beta; pro-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.