

Rat IL-1 alpha ELISA Kit | IL1A elisa kit

Rat IL-1 alpha PicoKine ELISA Kit

CATALOG #
AAA45238

REACTIVITY
Rat

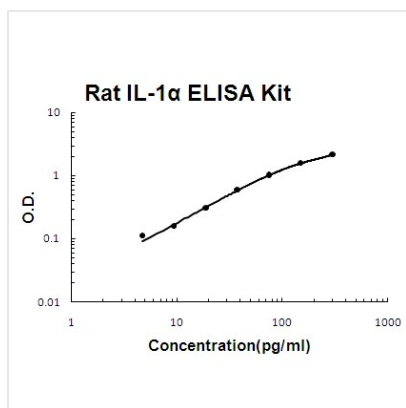
PRODUCT SYNONYMS

IL-1 alpha; Rat IL-1 alpha PicoKine ELISA Kit; Interleukin-1 alpha; interleukin 1; alpha; Hematopoietin 1; IFL; IFN; IFN alpha; IFN-alpha-1/13; IFNA@; IFNA1; IFNA1_HUMAN; IFNA13; IFNAP22; IL 1 alpha; Il 1a; IL1; IL1 ALPHA; IL1A; IL1F1; IliA; Interferon Alpha; Interferon alpha 1; Interferon alpha 1/13; Interferon alpha 1/13 precursor; Interferon alpha 13; Interferon alpha D; Interferon alpha leukocyte; Interferon alpha-1/13; Interferon alpha-D; Interferon leukocyte; Interleukin 1 alpha; Interleukin 1 alpha precursor; Interleukin1 alpha; LelF D; MGC138207; MGC138505; MGC138507; OTTHUMP00000203692; OTTMUSP00000016430; Preinterleukin 1; Pro interleukin 1; Pro interleukin 1 alpha; Prointerleukin 1; RP23-160G19.8; IL1A elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat IL-1alpha
Sequence Length	270
Samples	Cell culture supernates and serum
Assay Type	Sandwich
Detection Range	4.69pg/ml-300pg/ml
Sensitivity	< 0.5pg/ml
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)

Rat IL-1 alpha PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for IL1A elisa kit	Principle of the assay: Rat IL-1alpha ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IL-1alpha has been precoated onto 96-well plates. Standards and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IL-1alpha is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the rat IL-1alpha amount of sample captured in plate. Background: 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.¹ IL-1alpha has been implicated in the pathogenesis of infectious, autoimmune and inflammatory diseases.² 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.¹ The human interleukin 1alpha gene is assigned to chromosome 2.³ Genetic polymorphisms at interleukin (IL)-1alpha and IL-1beta have been recently suggested to be associated with severity of adult periodontitis.⁴ 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.⁵ The standard product used in this kit is recombinant rat IL-1alpha with the molecular mass of 18kDa.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	124301
NCBI GeneID	24493
UniProt Accession #	P16598; Q546R9
Molecular Weight	30,856 Da
NCBI Official Full Name	Interleukin-1 alpha
NCBI Official Synonym Full Names	interleukin 1 alpha
NCBI Official Symbol	IL1A
NCBI Official Synonym Symbols	IL-1 alpha
NCBI Protein Information	interleukin-1 alpha
UniProt Protein Name	Interleukin-1 alpha
UniProt Gene Name	IL1A
UniProt Synonym Gene Names	IL-1 alpha
UniProt Entry Name	IL1A_RAT

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.