

Rat IL-1beta ELISA Kit | IL-1beta elisa kit

IL-1beta (Rat) OmniKine ELISA Kit

CATALOG #
AAA315696

REACTIVITY
Rat

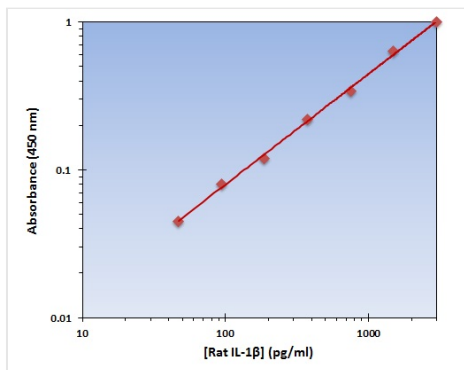
PRODUCT SYNONYMS

IL-1beta; IL-1beta (Rat) OmniKine ELISA Kit; Interleukin-1 beta; IL-1 beta; IL-1beta elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	The OmniKine Murine JE/MCP-1 ELISA is capable of recognizing both recombinant and naturally produced Murine JE/MCP-1 proteins. The antigens listed below were tested at 50 ng/ml and exhibited 100% cross reactivity.
Form/Format	12 x 8-Well Microstrips
Sequence Length	268
Assay Type	Quantitative Sandwich
Sensitivity	63-4000 pg/ml.
Preparation and Storage	Store entire kit at 4 degree C until use.

IMAGES



Application Data

The OmniKine Rat IL-1beta ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Rat IL-1beta proteins within the range of 47-3000 pg/ml.

ADDITIONAL INFORMATION

Related Product Information for IL-1beta elisa kit	Principle of the Assay: The OmniKine Murine JE/MCP-1 ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Murine JE/MCP-1 concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Murine JE/MCP-1 while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a colorimetric reaction to ensue upon substrate addition. When the substrate TMB (3, 3', 5, 5'-Tetramethylbenzidine) is added, the reaction catalyzed by peroxidase yields a blue color that is representative of the antigen concentration. Upon sufficient color development, the reaction can be terminated through addition of Stop Solution (2 N Sulfuric Acid) where the color of the solution will turn yellow. The absorbance of each well can then be read by a spectrophotometer, allowing for generation of a standard curve and subsequent determination of protein concentration!!Background/Introduction: Murine JE/MCP-1 or Monocyte Chemotactic Protein 1, mainly known as C-C Motif Chemokine 2, is a 148 amino acid cytokine protein expressed from chromosome 11. After initial synthesis and translocation, the 23 residue signal sequence is cleaved, allowing the 125 residue JE/MCP-1 peptide to properly fold and mature. Belonging to the intercrine beta (chemokine C-C) family, the monomeric and homodimeric JE/MCP-1 proteins function as chemotactic factors that attract monocytes, but not neutrophils. Furthermore, they are typically induced by platelet-derived growth factors (PDGF).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2497335
NCBI GeneID	24494
UniProt Accession #	Q63264
Molecular Weight	30,644 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-1F2
NCBI Protein Information	interleukin-1 beta
UniProt Protein Name	Interleukin-1 beta
UniProt Gene Name	IL1b
UniProt Synonym Gene Names	IL-1 beta

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://stage.aaabiotech.com/rat-elisa-kits/il-1beta/315696>