

Rat MCP-1 CLIA Kit | MCP-1 clia kit

MCP-1 (Rat) LumiAb ELISA Kit

CATALOG #
AAA318587

REACTIVITY
Rat

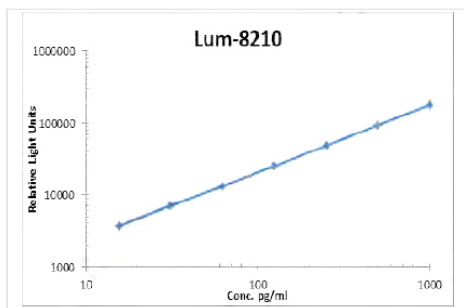
PRODUCT SYNONYMS

MCP-1; MCP-1 (Rat) LumiAb ELISA Kit; Rat MCP-1; C-C motif chemLumine 2; Immediate-early serum-responsive protein JE; Monocyte chemoattractant protein 1; Monocyte chemotactic protein 1; Small-inducible cytLumine A2; MCP-1 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	The LumiAb Rat IL-1beta ELISA is capable of recognizing both recombinant and naturally produced Rat IL-1beta proteins. The antigens listed below were tested at 50 ng/ml and exhibited less than 5% cross reactivity.
Sequence Length	148
Assay Type	Quantitative Sandwich
Sensitivity	11 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MCP-1 clia kit	Principle of the Assay: The LumiAb Rat IL-1beta Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Rat IL-1beta 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 Rat IL-1beta 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 sensitive luminescent reaction to ensue upon substrate addition. When the Peroxide Enhancer solution is added, the reaction catalyzed by peroxidase yields light that is representative of the antigen concentration. After a brief incubation, the microplate can be read with a luminometer, allowing for generation of a standard curve and subsequent determination of protein concentration!!Background/Introduction: Rat IL-1beta, also known as Interleukin-1beta, is a 268 amino acid cytokine protein encoded by the Il1b gene located at locus 3q36 on chromosome 3. After initial synthesis, it undergoes proteolytic processing to remove the 116 residue propeptide sequence from the 152 residue IL-1alpha peptide, thus allowing for proper folding and maturation. Produced by activated macrophages, IL-1beta stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1beta proteins, monomeric members of the IL-1 family, are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells. The lack of a specific hydrophobic segment in the precursor sequence suggests that IL-1beta is released by damaged cells or is secreted by a mechanism differing from that used for other secretory proteins.
Product Categories/Family for MCP-1 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	13928714
NCBI GeneID	24770
NCBI Accession #	NP_113718.1
NCBI GenBank Nucleotide #	NM_031530.1
UniProt Accession #	P14844
NCBI Official Full Name	C-C motif chemokine 2
NCBI Official Synonym Full Names	C-C motif chemokine ligand 2
NCBI Official Symbol	Ccl2
NCBI Official Synonym Symbols	MCP-1; Scya2; Sigje
NCBI Protein Information	C-C motif chemokine 2
UniProt Protein Name	C-C motif chemokine 2
UniProt Gene Name	Ccl2
UniProt Synonym Gene Names	Je; Mcp1; Scya2; MCP-1
UniProt Entry Name	CCL2_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.

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Online datasheet: <https://stage.aaabiotech.com/rat-clia-kits/mcp-1/318587>