

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

MCP-1 (Human) LumiAb ELISA Kit

CATALOG #
AAA318550

REACTIVITY
Human

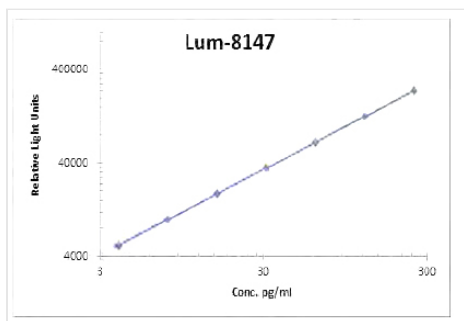
PRODUCT SYNONYMS

MCP-1; MCP-1 (Human) LumiAb ELISA Kit; Human MCP-1; C-C motif chemLumine 2; HC11; Monocyte chemoattractant protein 1; Monocyte chemotactic and activating factor; MCAF; Monocyte chemotactic protein 1; Monocyte secretory protein JE; Small-inducible cytLumine A2; SCYA2; MCP-1 clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human Leptin ELISA is capable of recognizing both recombinant and naturally produced Human Leptin proteins. The antigens listed below were tested at 50 ng/ml and exhibited less than 5% cross reactivity.
Sequence Length	99
Assay Type	Quantitative Sandwich
Sensitivity	15 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 Human Leptin Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human Leptin 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 Human Leptin 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: Human Leptin, also known as Obesity Factor, is a 167 amino acid cytokine protein encoded by the LEP gene located at locus 7q31.3 on chromosome 7. Leptin may function as part of a signaling pathway that acts to regulate the size of the body fat depot. An increase in the level of LEP may act directly or indirectly on the CNS to inhibit food intake and/or regulate energy expenditure as part of a homeostatic mechanism to maintain constancy of the adipose mass. Defects in LEP may be a cause of obesity, a condition characterized by an increase of body weight beyond the limitation of skeletal and physical requirements, as the results of excessive accumulation of body fat. Leptin also has several endocrine functions, and is involved in the regulation of immune and inflammatory responses, hematopoiesis, angiogenesis and wound healing. Mutations in the gene and/or its regulatory regions may cause severe obesity and morbid obesity with hypogonadism as well as development of type 2 diabetes mellitus.
Product Categories/Family for MCP-1 clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	545465
NCBI GeneID	6347
NCBI Official Full Name	MCP-1
NCBI Official Synonym Full Names	C-C motif chemokine ligand 2
NCBI Official Symbol	CCL2
NCBI Official Synonym Symbols	HC11; MCAF; MCP1; MCP-1; SCYA2; GDCF-2; SMC-CF; HSMCR30
NCBI Protein Information	C-C motif chemokine 2

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/human-clia-kits/mcp-1/318550>