

Human Mesothelin CLIA Kit | MSLN clia kit

Mesothelin (Human) LumiAb ELISA Kit

CATALOG #
AAA318607

REACTIVITY
Human

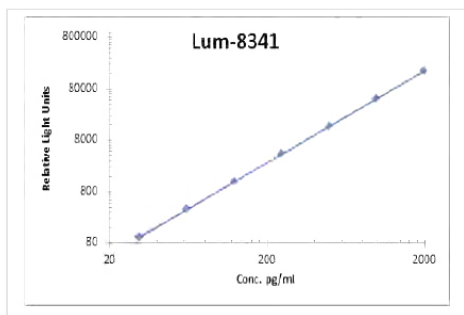
PRODUCT SYNONYMS

Mesothelin; Mesothelin (Human) LumiAb ELISA Kit; Human Mesothelin; CAK1 antigen; Pre-pro-megakaryocyte-potentiating factor; MPF; MSLN clia kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The LumiAb Human MCP-1 ELISA is capable of recognizing both recombinant and naturally produced Human MCP-1 proteins. The antigens listed below were tested at 50 ng/ml and did not exhibit significant cross reactivity or interference.
Sequence Length	622
Assay Type	Quantitative Sandwich
Sensitivity	4 pg/ml.
Preparation and Storage	Store at 4 degree C for 6 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MSLN clia kit	Principle of the Assay: The LumiAb Human MCP-1 Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human 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 Human 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 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 MCP-1 or Monocyte Chemoattractant Protein-1, also known as C-C Motif Chemokine 2, is a 99 amino acid chemokine protein encoded by the CCL2 gene located at locus 17q11.2-17q12 on chromosome 17. MCP-1 is mainly a chemotactic factor that attracts monocytes and basophils but not neutrophils or eosinophils. Typically, the chemokine is believed to augment monocyte anti-tumor activity and has also been implicated in the pathogenesis of disease characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis or atherosclerosis. Moreover, MCP-1 may also be involved in the recruitment of monocytes into the arterial wall during the disease process of atherosclerosis. Able to exist as monomeric or homodimeric in equilibrium, MCP-1 can bind to CCR2 and CCR4, as well as being tethered on endothelial cells by glycosaminoglycan (GAG) side chains of proteoglycans. A common post-translational modification that takes place with MCP-1 is processing at the N-terminus which can regulate receptor and target cell selectivity. Deletion of the N-terminal residue converts it from an activator of basophils to an eosinophil chemoattractant.
Product Categories/Family for MSLN clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	53988378
NCBI GeneID	10232
NCBI Accession #	NP_005814.2
NCBI GenBank Nucleotide #	NM_005823.6
UniProt Accession #	Q13421
NCBI Official Full Name	mesothelin isoform 1 preproprotein
NCBI Official Synonym Full Names	mesothelin
NCBI Official Symbol	MSLN
NCBI Official Synonym Symbols	MPF; SMRP
NCBI Protein Information	mesothelin
UniProt Protein Name	Mesothelin
UniProt Gene Name	MSLN
UniProt Synonym Gene Names	MPF; MPF
UniProt Entry Name	MSLN_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.