

Mouse MDC CLIA Kit | MDC clia kit

MDC (Murine) LumiAb ELISA Kit

CATALOG #
AAA318578

REACTIVITY
Mouse

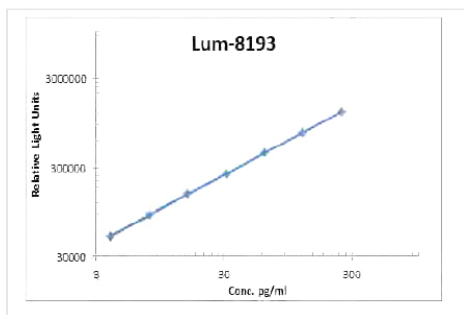
PRODUCT SYNONYMS

MDC; MDC (Murine) LumiAb ELISA Kit; Murine MDC; C-C motif chemLumine 22; Activated B and dendritic cell-derived; CC chemLumine ABCD-1; Small-inducible cytLumine A22; Abcd1; Scya22; MDC clia kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	The LumiAb Murine M-CSF ELISA is capable of recognizing both recombinant and naturally produced Murine M-CSF proteins. The antigens listed below were tested at 50 ng/ml and exhibited less than 1% cross reactivity.
Sequence Length	92
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 MDC clia kit	Principle of the Assay: The LumiAb Murine M-CSF Chemiluminescent ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Murine M-CSF 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 M-CSF 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 M-CSF, also known as Macrophage Colony-Stimulating Factor 1, is a 552 amino acid cytokine protein encoded by the Csf1 gene located on chromosome 3. After initial synthesis and translocation, the 32 residue signal sequence is proteolytically cleaved from the N-terminal of the peptide, allowing for the proper folding and maturation of M-CSF. Granulocyte or macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. M-CSF induces cells of the monocyte or macrophage lineage and plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy. The peptide can be N-glycosylated while the predominant soluble form is a chondroitin sulfate-containing proteoglycan. A defect in Csf1 is the cause of osteopetrosis. Osteopetrotic mice (op/op) are severely deficient in mature macrophages and osteoclasts, display failed tooth eruption, and have a restricted capacity for bone remodeling.
Product Categories/Family for MDC clia kit	Luminometer Sandwich ELISA

NCBI AND UNIPROT INFORMATION

NCBI GI #	6677879
NCBI GeneID	20299
NCBI Accession #	NP_033163.1
NCBI GenBank Nucleotide #	NM_009137.2
UniProt Accession #	O88430
NCBI Official Full Name	C-C motif chemokine 22
NCBI Official Synonym Full Names	chemokine (C-C motif) ligand 22
NCBI Official Symbol	Ccl22
NCBI Official Synonym Symbols	MDC; DCBCK; ABCD-1; Scya22
NCBI Protein Information	C-C motif chemokine 22
UniProt Protein Name	C-C motif chemokine 22
UniProt Gene Name	Ccl22
UniProt Synonym Gene Names	Abcd1; Scya22
UniProt Entry Name	CCL22_MOUSE

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.