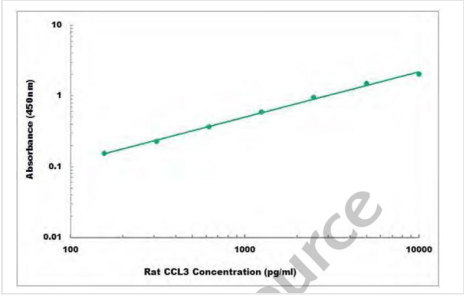
CCL3 ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	CCL3, ELISA Kit
Full Product Name	Rat CCL3 ELISA Kit
Product Gene Name	CCL3 elisa kit
Product Synonym Names	G0S19-1; MIP1A; SCYA3; C-C motif chemokine 3; G0/G1 switch regulatory protein 19-1; Macrophage inflammatory protein 1-alpha; MIP-1-alpha; PAT 464.1; SIS-beta; Small-inducible cytokine A3; Tonsillar lymphocyte LD78 alpha protein
Species Reactivity	Rat
Samples	Culture Supernatants, Serum, Plasma
Sensitivity	< 60 pg/ml
Specificity	The Rat CCL3 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Rat CCL3 proteins within the range of 156 pg/ml - 10000 pg/ml.
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	10,335 Da
3D Structure	ModBase 3D Structure for P50229
Applications Tested/Suitable for CCL3 elisa kit	Sandwich ELISA (SE)
Related Product Information for CCL3 elisa kit	Background: Macrophage inflammatory protein-1 alpha (MIP-1 alpha), also called CCL3, LD78. The cDNA for MIP-1 alpha predicts a mature peptide of 69 amino acids with a molecular mass of 7,889 daltons. LD78 is a member of a newly identified superfamily of small inducible proteins involved in inflammatory responses, wound healing and tumorigenesis. MIP-1 alpha is a chemokine that has pro-inflammatory and stem cell inhibitory activities in vitro. It constitutes an important second signal for mast cell degranulation in the conjunctiva in vivo and consequently for acute-phase disease. Principle of the Assay: The Rat CCL3 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Rat CCL3 in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Rat CCL3 coated on a 96-well plate. Standards and samples are pipetted into the wells and CCL3 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Rat CCL3 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of CCL3 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.
Other Notes	Small volumes of CCL3 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CCL3 purchase	MBS824889 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the CCL3, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CCL3. The ELISA analytical biochemical technique of the MBS824889 kit is based on CCL3 antibody-CCL3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CCL3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CCL3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of CCL3 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCL3. It may not necessarily be applicable to this product.

NCBI GI #	40254794
NCBI GeneID	25542
NCBI Accession #	NP_037157.2
UniProt Primary Accession #	P50229
UniProt Secondary Accession #	A1EC87
UniProt Related Accession #	P50229
GenBank Nucleotide #	NM_013025.2
NCBI Official Full Name	C-C motif chemokine 3
NCBI Official Synonym Full Names	chemokine (C-C motif) ligand 3
NCBI Official Symbol	Ccl3
NCBI Official Synonym Symbols	Scya3; MIP-1a
UniProt Protein Name	C-C motif chemokine 3
UniProt Synonym Protein Names	Macrophage inflammatory protein 1-alpha; MIP-1-alpha; Small-inducible cytokine A3
Protein Family	C-C motif chemokine
UniProt Gene Name	Ccl3
UniProt Synonym Gene Names	Mip1a; Scya3; MIP-1-alpha
UniProt Entry Name	CCL3_RAT
NCBI Protein Information	C-C motif chemokine 3; MIP-1-alpha; small inducible cytokine A3; small-inducible cytokine A3; macrophage inflammatory protein 1-alpha; Macrophage inflammatory protein 1 alpha (Small inducible cytokine A3)
NCBI Summary for CCL3	mediates monocyte and neutrophil chemotaxis; may play a role in the pathogenesis of acute lung injury [RGD, Feb 2006]
UniProt Comments for CCL3	Monokine with inflammatory and chemokinetic properties. Has chemotactic activity for monocytes, neutrophils, eosinophils, basophils, and lymphocytes. Required for lung TNF-alpha production, neutrophil recruitment and subsequent lung injury and may function as an autocrine mediator for the macrophage production of TNF-alpha which in turn up-regulates vascular adhesion molecules required for neutrophil influx. This protein binds heparin.
Research Articles on CCL3	**1.** Expression levels of CCL3 in the spinal cord are up-regulated following nerve injury.
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