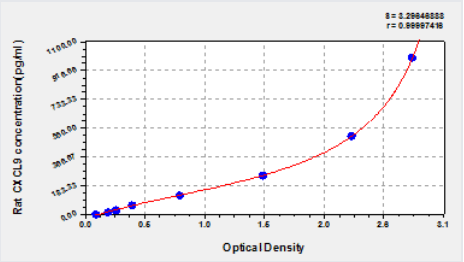
Chemokine (C-X-C Motif) Ligand 9 (CXCL9) ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	chemokine (C-X-C motif) ligand 9 (CXCL9), ELISA Kit
Full Product Name	Rat C-X-C motif chemokine 9, CXCL9 ELISA Kit
Product Gene Name	CXCL9 elisa kit
Product Synonym Names	Rat C-X-C motif chemokine 9 (CXCL9) ELISA kit; CMK; Humig; MIG; SCYB9; crg-10; monokine induced by gamma interferon; small inducible cytokine B9; chemokine (C-X-C motif) ligand 9
Species Reactivity	Rat
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, cell culture supernates, tissue homogenates
Detection Range	15.6 pg/ml-1000 pg/ml
Sensitivity	< 3.9 pg/ml
Specificity	This assay has high sensitivity and excellent specificity for detection of rat CXCL9. No significant cross-reactivity or interference between rat CXCL9 and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	14,019 Da
OMIM	601704
3D Structure	ModBase 3D Structure for Q07325
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CXCL9 elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for CXCL9 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CXCL9 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CXCL9 is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CXCL9 bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of CXCL9 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 CXCL9 purchase	MBS947027 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the chemokine (C-X-C motif) ligand 9 (CXCL9) 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 CXCL9. The ELISA analytical biochemical technique of the MBS947027 kit is based on CXCL9 antibody-CXCL9 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CXCL9 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CXCL9. 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 CXCL9 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CXCL9. It may not necessarily be applicable to this product.

NCBI GI #	4505187
NCBI GeneID	4283
NCBI Accession #	NP_002407.1
UniProt Primary Accession #	Q07325
UniProt Secondary Accession #	Q503B4
UniProt Related Accession #	Q07325
GenBank Nucleotide #	NM_002416.1
NCBI Official Full Name	C-X-C motif chemokine 9
NCBI Official Synonym Full Names	chemokine (C-X-C motif) ligand 9
NCBI Official Symbol	CXCL9
NCBI Official Synonym Symbols	CMK; MIG; Humig; SCYB9; crg-10
UniProt Protein Name	C-X-C motif chemokine 9
UniProt Synonym Protein Names	Gamma-interferon-induced monokine; Monokine induced by interferon-gamma; HuMIG; MIG; Small-inducible cytokine B9
Protein Family	C-X-C motif chemokine
UniProt Gene Name	CXCL9
UniProt Synonym Gene Names	CMK; MIG; SCYB9; HuMIG; MIG
UniProt Entry Name	CXCL9_HUMAN
NCBI Protein Information	C-X-C motif chemokine 9; small-inducible cytokine B9; gamma-interferon-induced monokine; monokine induced by gamma interferon; monokine induced by interferon-gamma
NCBI Summary for CXCL9	The function of this gene has not been specifically defined; however, it is thought to be involved in T cell trafficking. This gene has been localized to 4q21 with INP10, which is also a member of the chemokine family of cytokines. [provided by RefSeq, Jul 2008]

UniProt Comments for CXCL9	CXCL9: Cytokine that affects the growth, movement, or activation state of cells that participate in immune and inflammatory response. Chemotactic for activated T-cells. Binds to CXCR3. Belongs to the intercrine alpha (chemokine CxC) family. Protein type: Secreted, signal peptide; Secreted; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 4q21 Cellular Component: extracellular space; extracellular region; external side of plasma membrane Molecular Function: protein binding; CXCR3 chemokine receptor binding; chemokine activity; cytokine activity Biological Process: G-protein coupled receptor protein signaling pathway; cell-cell signaling; cellular defense response; immune response; response to lipopolysaccharide; positive regulation of leukocyte chemotaxis; defense response; positive regulation of release of sequestered calcium ion into cytosol; positive regulation of cAMP metabolic process; inflammatory response; chemotaxis; signal transduction; defense response to virus; positive regulation of myoblast differentiation; regulation of cell proliferation
Research Articles on CXCL9	**1.** Increased CXCL9 serum levels in hepatitis C-related mixed cryoglobulinemia, with autoimmune thyroiditis, associated with high levels of CXCL10.
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