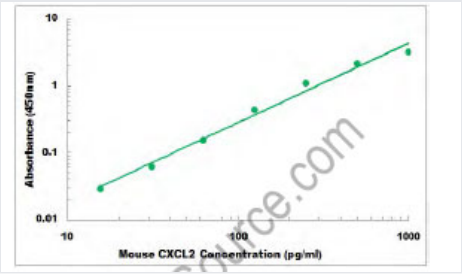
CXCL2 ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	CXCL2, ELISA Kit
Full Product Name	Mouse CXCL2 ELISA Kit
Product Gene Name	CXCL2 elisa kit
Product Synonym Names	GRO2; GROB; MIP2A; SCYB2; C-X-C motif chemokine 2; Growth-regulated protein beta; Gro-beta; Macrophage inflammatory protein 2-alpha; MIP2-alpha
Species Reactivity	Mouse
Samples	Cell Culture Supernatants, Serum, Plasma
Sensitivity	7 pg/ml.
Specificity	The Mouse CXCL2 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Mouse CXCL2 proteins within the range of 15.6 pg/ml - 1000 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	10,621 Da
3D Structure	ModBase 3D Structure for P10889
Applications Tested/Suitable for CXCL2 elisa kit	Sandwich ELISA (SE)
Related Product Information for CXCL2 elisa kit	Principle of the Assay: The Mouse CXCL2 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Mouse CXCL2 in Cell Culture Supernatants, Serum, Plasma. This assay employs an antibody specific for Mouse CXCL2 coated on a 96-well plate. Standards and samples are pipetted into the wells and CXCL2 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Mouse CXCL2 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 CXCL2 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background/Introduction: MIP is a member of the aquaporin family of membrane-bound water channels. MIP family proteins are thought to contain 6 TM domains. Sequence analysis suggests that the proteins may have arisen through tandem, intragenic duplication from an ancestral protein that contained 3 TM domains. Major intrinsic protein (MIP, also called MP26) is the predominant fiber cell membrane protein of the ocular lens. The major intrinsic protein (MIP) of the vertebrate eye lens is the first identified member of a sequence-related family of cell-membrane proteins that appears to have evolved by gene duplication. Several members of the MIP family transport water (aquaporins), glycerol and other small molecules in microbial, plant and animal cells.
Other Notes	Small volumes of CXCL2 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 CXCL2 purchase	MBS824972 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the CXCL2, 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 CXCL2. The ELISA analytical biochemical technique of the MBS824972 kit is based on CXCL2 antibody-CXCL2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CXCL2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CXCL2. 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 CXCL2 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CXCL2. It may not necessarily be applicable to this product.

NCBI GI #	6677885
NCBI GeneID	20310
NCBI Accession #	NP_033166.1
UniProt Primary Accession #	P10889
UniProt Related Accession #	P10889
GenBank Nucleotide #	NM_009140.2
NCBI Official Full Name	C-X-C motif chemokine 2
NCBI Official Synonym Full Names	chemokine (C-X-C motif) ligand 2
NCBI Official Symbol	Cxcl2
NCBI Official Synonym Symbols	GROb; Gro2; Mip2; Scyb; MIP-2; Scyb2; MIP-2a; Mgsa-b; CINC-2a
UniProt Protein Name	C-X-C motif chemokine 2
UniProt Synonym Protein Names	Macrophage inflammatory protein 2; MIP2
Protein Family	C-X-C motif chemokine
UniProt Gene Name	Cxcl2
UniProt Synonym Gene Names	Mip-2; Mip2; Scyb2; MIP2
UniProt Entry Name	CXCL2_MOUSE
NCBI Protein Information	C-X-C motif chemokine 2; macrophage inflammatory protein 2; small inducible cytokine subfamily, member 2
UniProt Comments for CXCL2	Chemotactic for human polymorphonuclear leukocytes but does not induce chemokinesis or an oxidative burst.
Research Articles on CXCL2	**1.** Data indicate that levels of toll-like receptors TLR4/4-stimulated chemokines CXCL1 and CXCL2 were selectively enhanced in stressed macrophages via receptor-interacting protein kinase 1 (RIPK1).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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