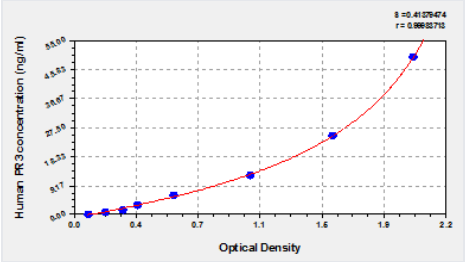
Cysteine-Rich, Angiogenic Inducer, 61 (CYR61) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	cysteine-rich, angiogenic inducer, 61 (CYR61), ELISA Kit
Full Product Name	Human cysteine-rich 61, Cyr61/CCN1 ELISA Kit
Product Gene Name	CYR61 elisa kit
Product Synonym Names	Human cysteine-rich 61 (Cyr61/CCN1) ELISA Kit; CCN1; GIG1; IGFBP10; cysteine-rich heparin-binding protein 61; cysteine-rich; anigogenic inducer; 61; cysteine-rich; angiogenic inducer; 61
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, Plasma, Cell Lysates, Tissue Homogenates
Detection Range	31.25 pg/ml-2000 pg/ml
Sensitivity	7.81 pg/ml.
Specificity	This assay has high sensitivity and excellent specificity for detection of human CyPB. No significant cross-reactivity or interference between human CyPB 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	42,027 Da
OMIM	602369
3D Structure	ModBase 3D Structure for O00622
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CYR61 elisa kit	Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for CyPB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CyPB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CyPB 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 CyPB bound in the initial step. The color development is stopped and the intensity of the color is measured.
Other Notes	Small volumes of CYR61 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 CYR61 purchase	MBS700945 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the cysteine-rich, angiogenic inducer, 61 (CYR61) 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 CYR61. The ELISA analytical biochemical technique of the MBS700945 kit is based on CYR61 antibody-CYR61 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CYR61 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CYR61. 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 CYR61 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYR61. It may not necessarily be applicable to this product.

NCBI GI #	31542331
NCBI GeneID	3491
NCBI Accession #	NP_001545.2
UniProt Primary Accession #	O00622
UniProt Secondary Accession #	O14934; O43775; Q9BZL7
UniProt Related Accession #	O00622
GenBank Nucleotide #	NM_001554.4
NCBI Official Full Name	protein CYR61
NCBI Official Synonym Full Names	cysteine-rich, angiogenic inducer, 61
NCBI Official Symbol	CYR61
NCBI Official Synonym Symbols	CCN1; GIG1; IGFBP10
UniProt Protein Name	Protein CYR61
UniProt Synonym Protein Names	CCN family member 1; Cysteine-rich angiogenic inducer 61; Insulin-like growth factor-binding protein 10; IBP-10; IGF-binding protein 10; IGFBP-10; Protein GIG1
Protein Family	Protein
UniProt Gene Name	CYR61
UniProt Synonym Gene Names	CCN1; GIG1; IGFBP10; IBP-10; IGF-binding protein 10; IGFBP-10
UniProt Entry Name	CYR61_HUMAN
NCBI Protein Information	protein CYR61; IBP-10; IGFBP-10; CCN family member 1; IGF-binding protein 10; cysteine-rich, anigogenic inducer, 61; cysteine-rich heparin-binding protein 61; insulin-like growth factor-binding protein 10
NCBI Summary for CYR61	The secreted protein encoded by this gene is growth factor-inducible and promotes the adhesion of endothelial cells. The encoded protein interacts with several integrins and with heparan sulfate proteoglycan. This protein also plays a role in cell proliferation, differentiation, angiogenesis, apoptosis, and extracellular matrix formation. [provided by RefSeq, Sep 2011]
UniProt Comments for CYR61	**Function:** Promotes cell proliferation, chemotaxis, angiogenesis and cell adhesion. Appears to play a role in wound healing by up-regulating, in skin fibroblasts, the expression of a number of genes involved in angiogenesis, inflammation and matrix remodeling including VEGA-A, VEGA-C, MMP1, MMP3, TIMP1, uPA, PAI-1 and integrins alpha-3 and alpha-5. CYR61-mediated gene regulation is dependent on heparin-binding. Down-regulates the expression of alpha-1 and alpha-2 subunits of collagen type-1. Promotes cell adhesion and adhesive signaling through integrin alpha-6/beta-1, cell migration through integrin alpha-v/beta-5 and cell proliferation through integrin alpha-v/beta-3.1 PublicationManual assertion based on experiment in:Ref.10
Research Articles on CYR61	**1.** Our results suggest that CCN1 has a role in the development of intraepithelial breast carcinoma.

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