Corticosteroid-Binding Globulin (SERPINA6) ELISA Kit for Human

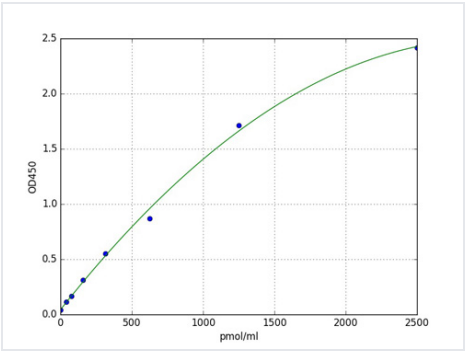
PRODUCT OVERVIEW

Product Name	Corticosteroid-binding globulin (SERPINA6), ELISA Kit
Full Product Name	Human Corticosteroid-binding globulin ELISA Kit
Product Gene Name	SERPINA6 elisa kit
Product Synonym Names	CBG/SERPINA6/Serpin A6/Transcortin/corticosteroid binding globulin/member 6/serpin peptidase inhibitor; clade A (alpha-1 antiproteinase; antitrypsin)
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	15.625-1000ng/ml
Sensitivity	9.375ng/ml
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C
Molecular Weight	45,141 Da
OMIM	122500
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for SERPINA6 elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-CBG antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-CBG antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the CBG amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of CBG can be calculated.
Other Notes	Small volumes of SERPINA6 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 SERPINA6 purchase	MBS764185 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Corticosteroid-binding globulin (SERPINA6) 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 SERPINA6. The ELISA analytical biochemical technique of the MBS764185 kit is based on SERPINA6 antibody-SERPINA6 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect SERPINA6 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, SERPINA6. 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(%).

Results of a typical standard run of a CBG ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	pg/ml	0	39.06	78.125	156.25	312.5	625	1250umol	2500umol
Y	OD450	0.040	0.151	0.266	0.560	0.846	1.143	1.756	2.293

Typical Testing Data of SERPINA6 elisa kit



Typical Standard Curve of SERPINA6 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SERPINA6. It may not necessarily be applicable to this product.

NCBI GI #	73858564
NCBI GeneID	866
NCBI Accession #	NP_001747.2
UniProt Secondary Accession #	Q7Z2Q9; A8K456
UniProt Related Accession #	P08185
GenBank Nucleotide #	NM_001756.3
NCBI Official Full Name	corticosteroid-binding globulin
NCBI Official Synonym Full Names	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 6
NCBI Official Symbol	SERPINA6
NCBI Official Synonym Symbols	CBG
UniProt Protein Name	Corticosteroid-binding globulin
UniProt Synonym Protein Names	Serpin A6; Transcortin
Protein Family	Corticosteroid-binding globulin
UniProt Gene Name	SERPINA6
UniProt Synonym Gene Names	CBG; CBG
UniProt Entry Name	CBG_HUMAN
NCBI Protein Information	corticosteroid-binding globulin
NCBI Summary for SERPINA6	This gene encodes an alpha-globulin protein with corticosteroid-binding properties. This is the major transport protein for glucorticoids and progestins in the blood of most vertebrates. The gene localizes to a chromosomal region containing several closely related serine protease inhibitors which may have evolved by duplication events. [provided by RefSeq, Jul 2008]

UniProt Comments for SERPINA6	SERPINA6: Major transport protein for glucocorticoids and progestins in the blood of almost all vertebrate species. Defects in SERPINA6 are a cause of corticosteroid-binding globulin deficiency (CBG deficiency). CBG deficiency is an extremely rare hereditary disorder characterized by reduced corticosteroid-binding capacity with normal or low plasma corticosteroid-binding globulin concentration, and normal or low basal cortisol levels associated with hypo/hypertension and muscle fatigue. Belongs to the serpin family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 14q32.1 Cellular Component: extracellular space Molecular Function: serine-type endopeptidase inhibitor activity; steroid binding Biological Process: glucocorticoid metabolic process; transport Disease: Corticosteroid-binding Globulin Deficiency
Research Articles on SERPINA6	**1.** SERPINA6-rs1998056 regulated by FOXA/ERalpha might be associated with female HCC risk
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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