Cytochrome B5 (CYB5A) ELISA Kit for Human

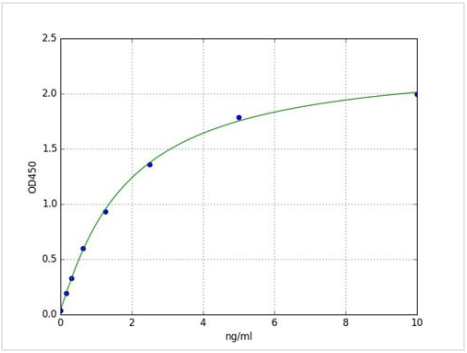
PRODUCT OVERVIEW

Product Name	Cytochrome b5 (CYB5A), ELISA Kit
Full Product Name	Human Cytochrome b5 ELISA Kit
Product Gene Name	CYB5A elisa kit
Product Synonym Names	CYB5A (Cytochrome b5)/CYB5/Microsomal cytochrome b5 type A/MCB5
Species Reactivity	Human
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/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	11,232 Da
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CYB5A elisa kit	Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-human CYB5Aantibody was pre-coated onto 96-well plates. And the biotin conjugated anti-human CYB5A 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 human CYB5A amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration ofhuman CYB5Acan be calculated.
Other Notes	Small volumes of CYB5A 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 CYB5A purchase	MBS765136 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cytochrome b5 (CYB5A) 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 CYB5A. The ELISA analytical biochemical technique of the MBS765136 kit is based on CYB5A antibody-CYB5A antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CYB5A antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CYB5A. 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 human CYB5A 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	ng/ml	0	0.156	0.313	0.625	1.25	2.5	5	10
Y	OD450	0.067	0.147	0.201	0.303	0.535	0.920	1.552	2.307

Typical Testing Data of CYB5A elisa kit



Typical Standard Curve of CYB5A elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYB5A. It may not necessarily be applicable to this product.

NCBI GI #	284004897
NCBI GeneID	100328915
NCBI Accession #	NP_001164735.1
UniProt Secondary Accession #	Q28726
UniProt Related Accession #	P00169
GenBank Nucleotide #	NM_001171264.1
NCBI Official Full Name	cytochrome b5
NCBI Official Symbol	LOC100328915
NCBI Official Synonym Symbols	CYB5; CYB5A
UniProt Protein Name	Cytochrome b5
Protein Family	Cytochrome
UniProt Gene Name	CYB5A
UniProt Synonym Gene Names	CYB5
UniProt Entry Name	CYB5_RABIT
NCBI Protein Information	cytochrome b5
UniProt Comments for CYB5A	Cytochrome b5 is a membrane bound hemoprotein which function as an electron carrier for several membrane bound oxygenases.
Research Articles on CYB5A	**1.** the observation of weak and nonspecific interactions between CYP2B4 and cytb5 in micelles suggests that lipid bilayer structures and low curvature membrane surface are preferable for CYP2B4-cytb5 complex formation.
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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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