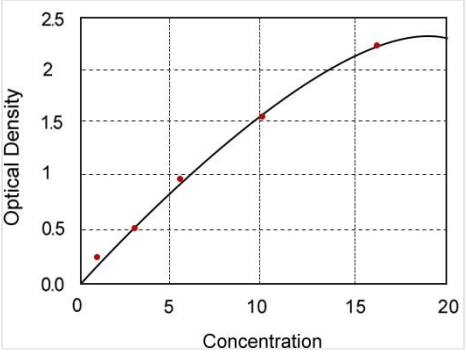
Cytoglobin (CYGB) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cytoglobin (CYGB), ELISA Kit
Full Product Name	Human Cytoglobin (CYGB) ELISA Kit
Product Gene Name	CYGB elisa kit
Species Reactivity	Human
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, cell culture supernates, cell lysates, tissue homogenates
Detection Range	0.5ng/ml - 200ng/ml
Sensitivity	0.31ng/ml
Preparation and Storage	Store at 2 to 8 degree C for 6 months.
Molecular Weight	21,405 Da
3D Structure	ModBase 3D Structure for Q8WWM9
Intra-Assay	CV<8%
Inter-Assay	CV<10%
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CYGB elisa kit	Intended Uses: This sandwich kit is for the accurate quantitative detection of human Cytoglobin (also known as CYGB) in serum, plasma, cell culture supernates, cell lysates, tissue homogenates. Principles of the Assay: This kit is an Enzyme-Linked Immunosorbent Assay (ELISA). The plate has been pre-coated with human CYGB antibody. CYGB present in the sample is added and binds to antibodies coated on the wells. And then biotinylated human CYGB Antibody is added and binds to CYGB in the sample. Then Streptavidin-HRP is added and binds to the Biotinylated CYGBantibody. After incubation unbound Streptavidin-HRP is washed away during a washing step. Substrate solution is then added and color develops in proportion to the amount of human CYGB. The reaction is terminated by addition of acidic stop solution and absorbance is measured at 450 nm.
Other Notes	Small volumes of CYGB 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 CYGB purchase	MBS164929 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Cytoglobin (CYGB) 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 CYGB. The ELISA analytical biochemical technique of the MBS164929 kit is based on CYGB antibody-CYGB antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CYGB antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CYGB. 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 CYGB elisa kit

ADDITIONAL DETAILS

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

NCBI GI #	19549331
NCBI GeneID	114757
NCBI Accession #	NP_599030.1
UniProt Primary Accession #	Q8WWM9
UniProt Secondary Accession #	Q541Y7; Q8N2X5
UniProt Related Accession #	Q8WWM9
GenBank Nucleotide #	NM_134268.4
NCBI Official Full Name	cytoglobin
NCBI Official Synonym Full Names	cytoglobin
NCBI Official Symbol	CYGB
NCBI Official Synonym Symbols	HGB; STAP
UniProt Protein Name	Cytoglobin
UniProt Synonym Protein Names	Histoglobin; HGb; Stellate cell activation-associated protein
Protein Family	Cytoglobin
UniProt Gene Name	CYGB
UniProt Synonym Gene Names	STAP; HGb
NCBI Protein Information	cytoglobin
NCBI Summary for CYGB	This gene encodes a globin protein found in vertebrate cells. The encoded protein is described as a hexacoordinate hemoglobin which binds ligand differently from the pentacoordinate hemoglobins involved in oxygen transport, and may be involved in protection during oxidative stress. This gene is located on chromosome 17 in the same region as a retinal gene which is mutated in progressive rod-cone degeneration, but in the opposite orientation. [provided by RefSeq, Jan 2012]
UniProt Comments for CYGB	May have a protective function during conditions of oxidative stress. May be involved in intracellular oxygen storage or transfer.
Research Articles on CYGB	**1.** the study reveals a novel mechanism for the regulated expression of Cygb and also assigns a new role to Cygb in cell cycle control.

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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