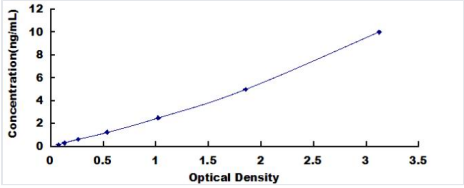
Cytoglobin (CYGB) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Cytoglobin (CYGB), ELISA Kit
Full Product Name	Human Cytoglobin (CYGB) ELISA Kit
Product Gene Name	CYGB elisa kit
Product Synonym Names	HGB; STAP; Stellate Cell Activation-Associated Protein; Histoglobin
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue Homogenates, Cell Lysates or Other Biological Fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.065ng/mL
Preparation and Storage	For unopened kits: All the reagents should be kept at 4 degree C upon receipt. For opened kits: Once the kit is opened, the remaining reagents still need to be stored according to the above storage conditions. In addition, return the unused wells to the foil pouch containing the desiccant pack and reseal along entire edge of zip-seal.
Molecular Weight	21,405 Da
OMIM	608759
3D Structure	ModBase 3D Structure for Q8WWM9
RTU ELISA Kit's Advantage	The Ready-To-Use (RTU) Kits require fewer steps in setup and take less time to run. Detection Solutions are pre-diluted and total incubation time is shorter than many other ELISA Kits.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for CYGB elisa kit	Test Principle: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CYGB. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CYGB. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CYGB, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of CYGB in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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	MBS458722 is a ready-to-use microwell, strip-or-full 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 MBS458722 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.
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