

Human Myoglobin (MB) ELISA Kit | MB elisa kit

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CATALOG #
AAA331854

REACTIVITY
Human

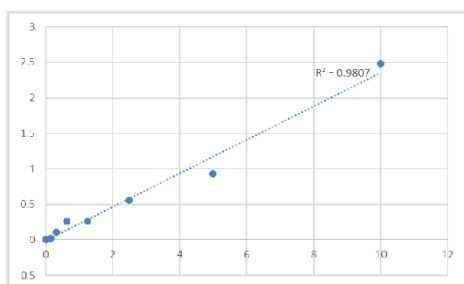
PRODUCT SYNONYMS

Myoglobin (MB); Human Myoglobin (MB) ELISA Kit; MB; MGC13548; PVALB; OTTHUMP00000197922; MB elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Myoglobin (MB) ELISA Kit has high sensitivity and excellent specificity for detection of Human MB. No significant cross-reactivity or interference between Human MB and analogues was observed.
Sequence Length	154
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Myoglobin (MB) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for MB elisa kit	Description: This Human Myoglobin (MB) ELISA Kit employs a two-site sandwich ELISA to quantitate MB in samples. An antibody specific for MB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MB present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for MB is added to the wells. After washing, Streptavidin 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 MB bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Myoglobin is a single-chain globular protein of 153 amino acids, containing a heme prosthetic group in the center around which the remaining apoprotein folds. It has eight alpha helices and a hydrophobic core. It has a molecular weight of 16,700 daltons, and is the primary oxygen-carrying pigment of muscle tissues. Unlike the blood-borne hemoglobin, to which it is structurally related, this protein does not exhibit cooperative binding of oxygen, since positive cooperativity is a property of multimeric/oligomeric proteins only. Instead, the binding of oxygen by myoglobin is unaffected by the oxygen pressure in the surrounding tissue. Myoglobin is often cited as having an "instant binding tenacity" to oxygen given its hyperbolic oxygen dissociation curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4885477
NCBI Accession #	NP_005359.1
NCBI GenBank Nucleotide #	NP_005359.1
UniProt Accession #	P02144
NCBI Official Full Name	myoglobin
UniProt Protein Name	Myoglobin
UniProt Gene Name	MB
UniProt Entry Name	MYG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.