

Human Methemoglobin (MHB) ELISA Kit | MHB elisa kit

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CATALOG #
AAA31496

REACTIVITY
Human

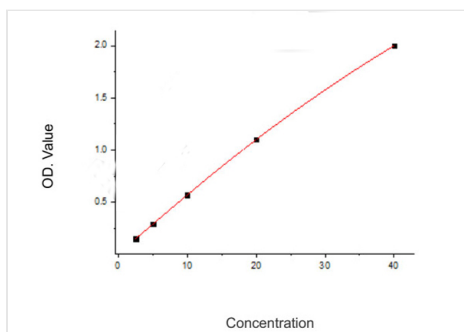
PRODUCT SYNONYMS

Methemoglobin (MHB); Human Methemoglobin (MHB) ELISA Kit; MHB elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Methemoglobin (MHB) ELISA Kit has high sensitivity and excellent specificity for detection of Human MHB. No significant cross-reactivity or interference between Human MHB and analogues was observed.
Assay Type	Sandwich
Samples	Human serum, cell culture supernates and other biological fluids
Detection Range	2.5 ng/ml - 40 ng/ml
Sensitivity	< 0.1ng/ml
Intra-assay Precision	Four samples of known concentration were tested twenty times on one plate to assess intra-assay precision. The CV (%)?9%.
Inter-assay Precision	Three samples of known concentration were tested in twenty separate assays to assess inter-assay precision. Assays were performed by at least three technicians using two lots of components. The CV (%)?11%.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for MHB elisa kit	Background: Methemoglobin is a form of the oxygen-carrying metalloprotein hemoglobin, in which the iron in the heme group is in the Fe3+ (ferric) state, not the Fe2+ (ferrous) of normal hemoglobin. Methemoglobin cannot bind oxygen, unlike oxyhemoglobin. It is bluish chocolate-brown in color. In human blood a trace amount of methemoglobin is normally produced spontaneously, but when present in excess the blood becomes abnormally dark bluish brown. The NADH-dependent enzyme methemoglobin reductase (diaphorase I) is responsible for converting methemoglobin back to hemoglobin. Principle of the Assay: Human Methemoglobin (MHB) ELISA Kit employs a two-site sandwich ELISA to quantitate MHB in samples. An antibody specific for MHB has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MHB present is bound by the immobilized antibody. After removing any unbound substances, HRP-Conjugated Human MHB detection antibody is added to the wells. Following a wash to remove any unbound HRP reagent, a Chromogen solution is added to the wells and color develops in proportion to the amount of MHB bound in the initial step. The color development is stopped and the intensity of the color is measured.
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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.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/methemoglobin-mhb/31496>