

Creatine Kinase MB ELISA Kit | CK-MB elisa kit

Human Creatine Kinase MB, CK-MB / CKMB

CATALOG #
AAA59105

PRODUCT SYNONYMS

Creatine Kinase MB; Human Creatine Kinase MB; CK-MB / CKMB; CK-MB; CKMB Human ELISA Kit; CK-MB elisa kit

PRODUCT SPECIFICATIONS

Samples	Human serum, plasma, tissue homogenates or cell culture supernatants.
Assay Type	Sandwich
Detection Range	3.12 ng/ml-200 ng/ml
Sensitivity	< 1 ng/ml
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES

Typical Data & Standard Curve

Results of a typical standard run of a human CK-MB 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	3.12	6.25	12.5	25	50	100	200
Y	OD450	0.055	0.071	0.084	0.116	0.213	0.458	1.170	2.176

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CK-MB elisa kit

Principle of the Assay||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-CK-MB monoclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-CK-MB monoclonal antibody was used as detection antibody. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex 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 CK-MB amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of CK-MB can be calculated.

Background/Introduction: Creatine kinase isoenzyme-MB (CK-MB) is a biomarker for detecting myocardial injury. It is a simple, widely available, and useful biomarker for predicting adverse in-hospital clinical outcomes in pulmonary embolism. The encoded protein reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in striated muscle as well as in other tissues, and as a heterodimer with a similar brain isozyme in heart. The CK-MB-to-total-CK ratio is an easily available indicator and could be clinically utilized as a primary screening tool for cancer. Higher ratio of CK-MB-to-total-CK was specifically associated with certain malignancies, like colorectal cancer, lung cancer and hepatocellular carcinoma, as well as some cancer-associated status factors such as advanced stage and liver metastasis.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/ck-mb-elisa-kits/creatine-kinase-mb/59105>