

Human Metallothionein-1G (MT1G) ELISA Kit | MT1G elisa kit

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CATALOG #
AAA331673

REACTIVITY
Human

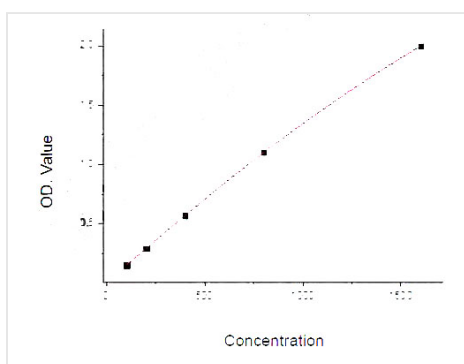
PRODUCT SYNONYMS

Metallothionein-1G (MT1G); Human Metallothionein-1G (MT1G) ELISA Kit; MT1G; MGC12386; MT1; MT1K; metallothionein 1K; MT1G elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Metallothionein-1G (MT1G) ELISA Kit has high sensitivity and excellent specificity for detection of Human MT1G. No significant cross-reactivity or interference
Sequence Length	61
Assay Type	Sandwich
Samples	Human serum, cell culture supernates and other biological fluids
Detection Range	100 ng/L - 1600 ng/L
Sensitivity	< 10 ng/L
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 MT1G elisa kit	Background: In 1957, American scientist Margoshoes isolated the metal protein of cadmium from animal organs while studying the role of metal biology. Because it is a low molecular weight, high sulfhydryl content and can bind a large amount of heavy metal ions, it is called metallothionein (referred to as MT). The MT molecule is oval in shape, divided into two domains, with a molecular weight of 6,000-7,000 Daltons, a diameter of 30-50Å, and contains 61 amino acids, of which 20 amino acids are cysteine, and a few have 21, so that each MT The molecule can bind 7 to 12 metal ions. Humans, animals, plants and microorganisms all contain MT, and their physical and chemical properties are basically the same, with special light absorption. The MT conformation is stronger and has strong heat resistance. Principle of the Assay: Human Metallothionein-1G (MT1G) ELISA Kit employs a two-site sandwich ELISA to quantitate MT1G in samples. An antibody specific for MT1G has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any MT1G present is bound by the immobilized antibody. After removing any unbound substances, HRP-Conjugated Human MT1G 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 MT1G bound in the initial step. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	10835230
NCBI GeneID	4495
NCBI Accession #	NP_005941.1
NCBI GenBank Nucleotide #	NP_005941.1
UniProt Accession #	P13640
NCBI Official Full Name	metallothionein-1G isoform 1
NCBI Official Synonym Full Names	metallothionein 1G
NCBI Official Symbol	MT1G
NCBI Official Synonym Symbols	MT1; MT1K
NCBI Protein Information	metallothionein-1G
UniProt Protein Name	Metallothionein-1G
UniProt Gene Name	MT1G
UniProt Synonym Gene Names	MT1K; MT1M; MT-1G; MT-1K; MT-IG
UniProt Entry Name	MT1G_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.