Human Metal Regulatory Transcription Factor 1 (MTF1) ELISA Kit | MTF1 elisa kit

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CATALOG #	REACTIVITY
AAA189787	**Human**

PRODUCT SYNONYMS

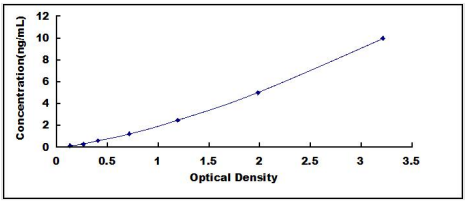
Metal Regulatory Transcription Factor 1 (MTF1); Human Metal Regulatory Transcription Factor 1 (MTF1) ELISA Kit; ZRF; MRE-binding transcription factor; MTF1/Metal Regulatory Transcription Factor 1; MTF1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Reactive with Human MTF1/Metal Regulatory Transcription Factor 1 This assay has high sensitivity and excellent specificity for detection of Metal Regulatory Transcription Factor 1 (MTF1). No significant cross-reactivity or interference between Metal Regulatory Transcription Factor 1 (MTF1) and analogues was observed.
Assay Type	Sandwich
Detection Range	0.156-10ng/mL
Sensitivity	0.061ng/mL
Detection Character	Regular detection
Assay Time	3h
Sample Size	100ul
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Metal Regulatory Transcription Factor 1 (MTF1) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Metal Regulatory Transcription Factor 1 (MTF1) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100uL standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100uL prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100uL prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90uL Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50uL Stop Solution. Read at 450nm immediately.
Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Metal Regulatory Transcription Factor 1 (MTF1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Metal Regulatory Transcription Factor 1 (MTF1). 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 Metal Regulatory Transcription Factor 1 (MTF1), 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 Metal Regulatory Transcription Factor 1 (MTF1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf Life: 8 months The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Product Categories/Family for MTF1 elisa kit	Signal transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	112790163
NCBI GeneID	4520
NCBI Accession #	NP_005946.2
NCBI GenBank Nucleotide #	NM_005955.2
UniProt Accession #	Q14872; Q96CB1; B2RAK6
Molecular Weight	80,957 Da
NCBI Official Full Name	metal regulatory transcription factor 1
NCBI Official Synonym Full Names	metal-regulatory transcription factor 1
NCBI Official Symbol	MTF1
NCBI Official Synonym Symbols	ZRF; MTF-1
NCBI Protein Information	metal regulatory transcription factor 1
UniProt Protein Name	Metal regulatory transcription factor 1
UniProt Gene Name	**MTF1**
UniProt Entry Name	MTF1_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.

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Online datasheet: https://stage.aaabiotech.com/human-elisa-kits/metal-regulatory-transcription-factor-1-mtf1/189787