

Human Divalent Metal Transporter 1 (DMT1) ELISA Kit | DMT1 elisa kit

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CATALOG #
AAA186581

REACTIVITY
Human

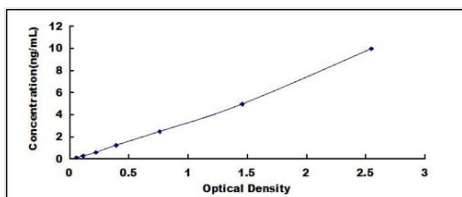
PRODUCT SYNONYMS

Divalent Metal Transporter 1 (DMT1); Human Divalent Metal Transporter 1 (DMT1) ELISA Kit; SLC11A2; DCT1; NRAMP2; Natural resistance-associated macrophage protein 2; Solute Carrier Family 11 Member 2; Proton-Coupled Divalent Metal Ion Transporters; DMT1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Divalent Metal Transporter 1 (DMT1). No significant cross-reactivity or interference between Divalent Metal Transporter 1 (DMT1) and analogues was observed.
Sequence Length	547
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates and Other Biological Fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.055ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Divalent Metal Transporter 1 (DMT1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Divalent Metal Transporter 1 (DMT1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	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

Related Product Information for DMT1 elisa kit	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 Divalent Metal Transporter 1 (DMT1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Divalent Metal Transporter 1 (DMT1). 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 Divalent Metal Transporter 1 (DMT1), 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 Divalent Metal Transporter 1 (DMT1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	27475929
NCBI GeneID	678623
Molecular Weight	60,107 Da
NCBI Official Full Name	divalent metal transporter 1
NCBI Official Synonym Full Names	solute carrier family 11 (proton-coupled divalent metal ion transporter), member 2
NCBI Official Symbol	slc11a2
NCBI Official Synonym Symbols	DMT1; cb426; fa07b10; wu:fa07b10; zgc:136699
NCBI Protein Information	natural resistance-associated macrophage protein 2
UniProt Protein Name	Divalent metal transporter 1
UniProt Gene Name	slc11a2

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.