

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

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CATALOG #
AAA186582

REACTIVITY
Rat

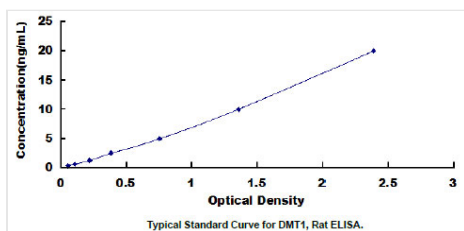
PRODUCT SYNONYMS

Divalent Metal Transporter 1 (DMT1); Rat 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	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of DMT1. No significant cross-reactivity or interference between DMT1 and analogues was observed.
Sequence Length	547
Assay Type	Quantitative Sandwich
Samples	Rat tissue homogenates, cell lysates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	< 0.117ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DMT1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level DMT1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. 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	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to DMT1. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to 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 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 DMT1 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of DMT1 in rat tissue homogenates, cell lysates and other biological fluids.
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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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/divalent-metal-transporter-1-dmt1/186582>